

FIG. 2

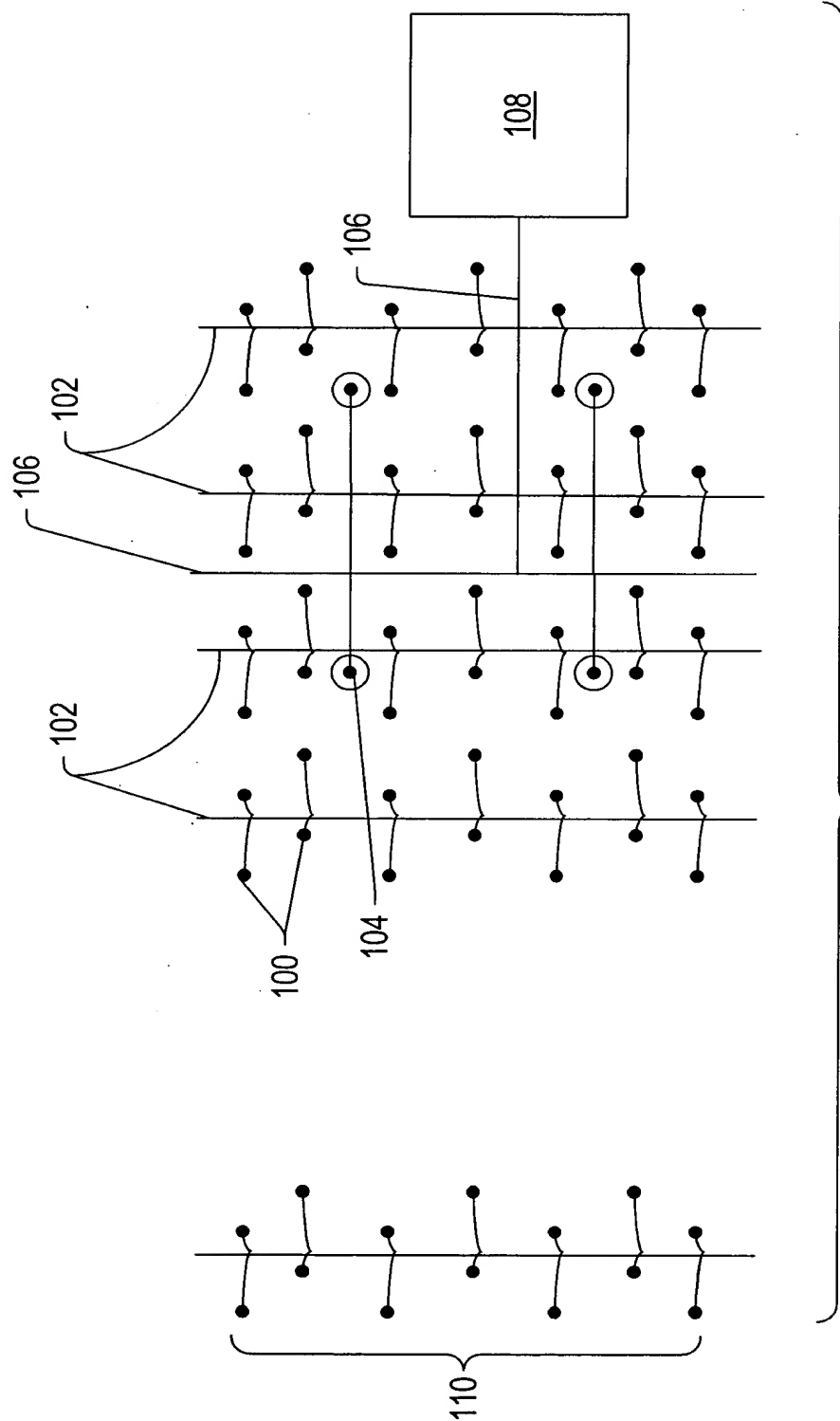


FIG. 3

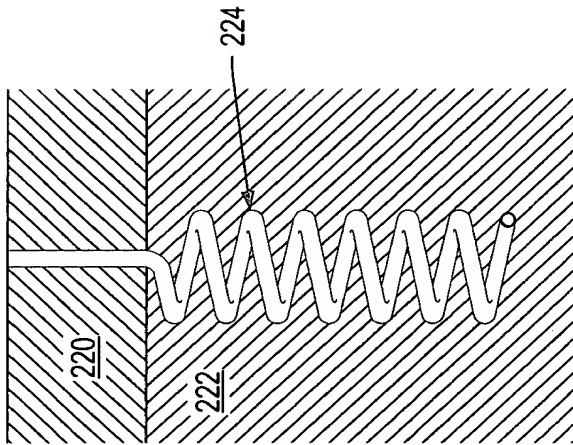


FIG. 3a

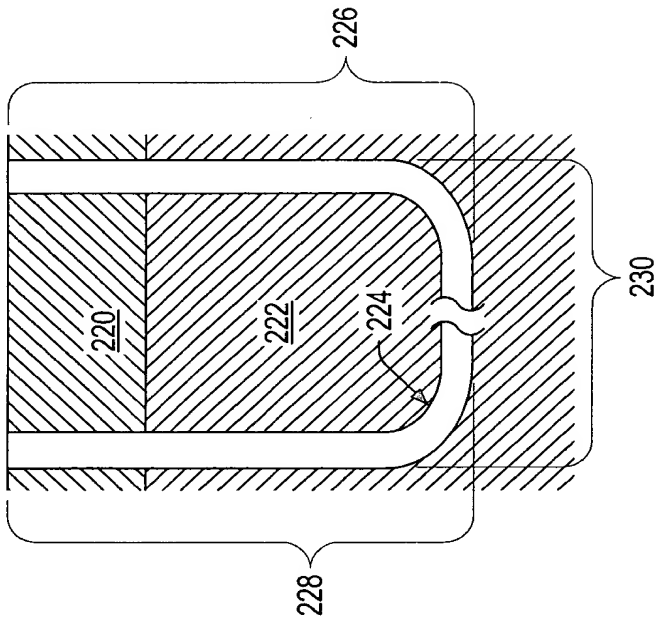


FIG. 3b

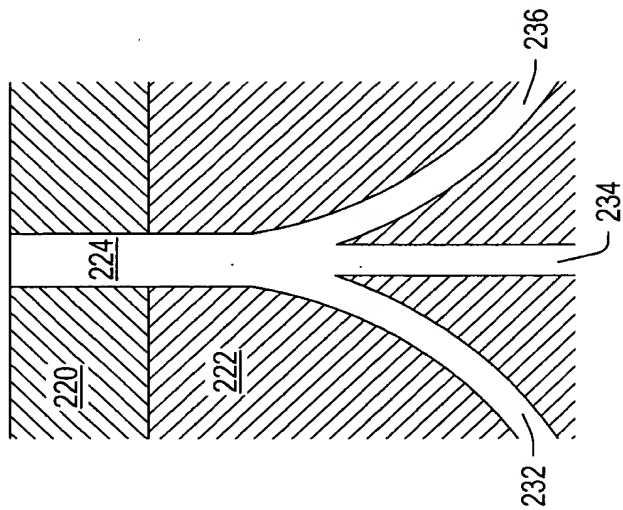
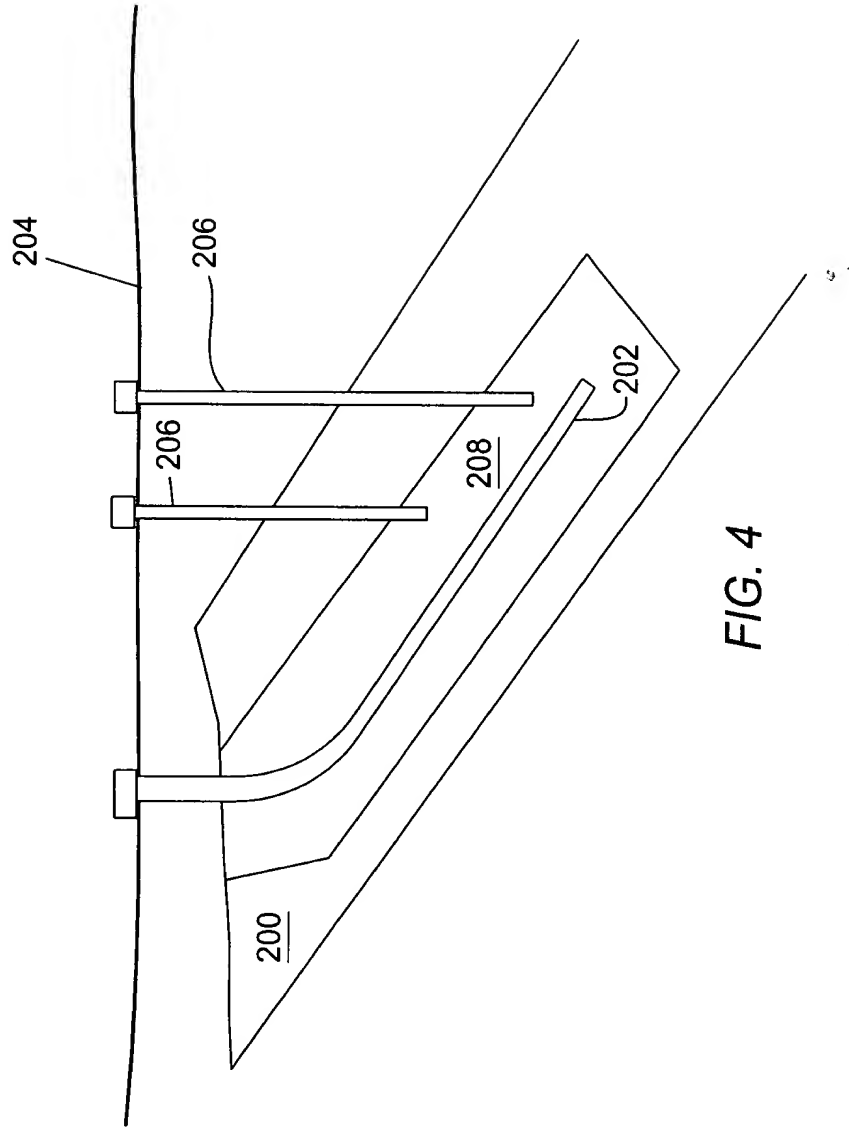
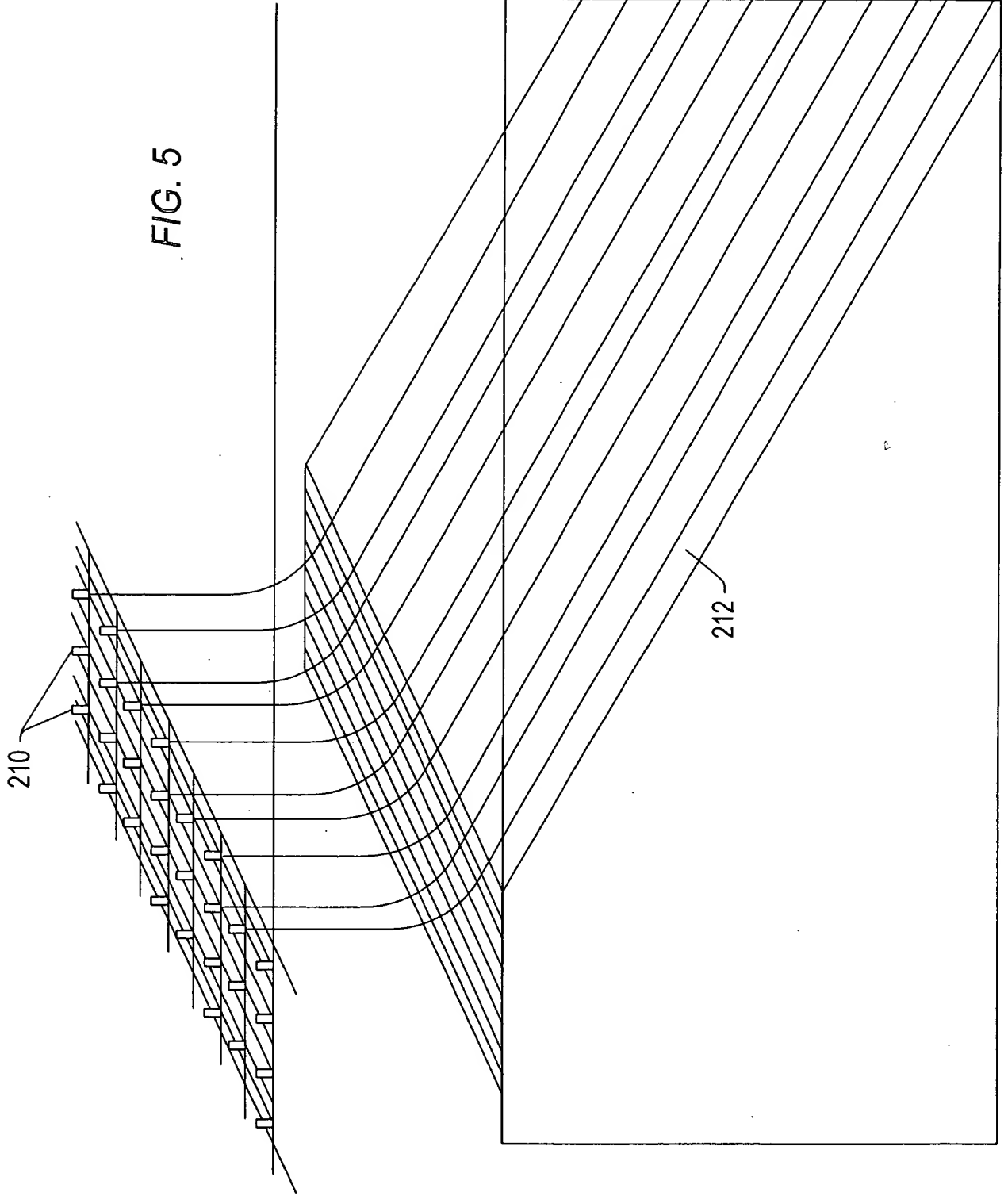


FIG. 3c





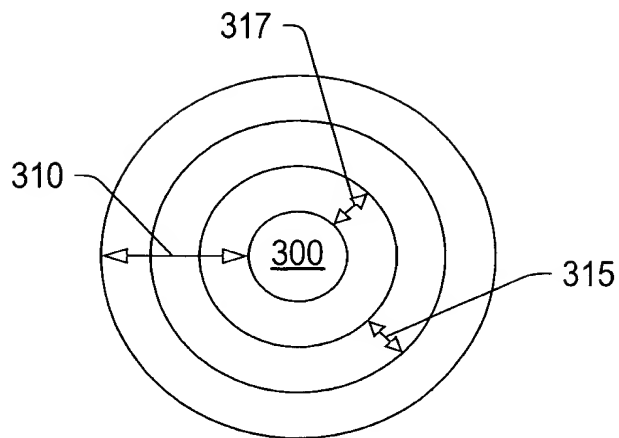


FIG. 6

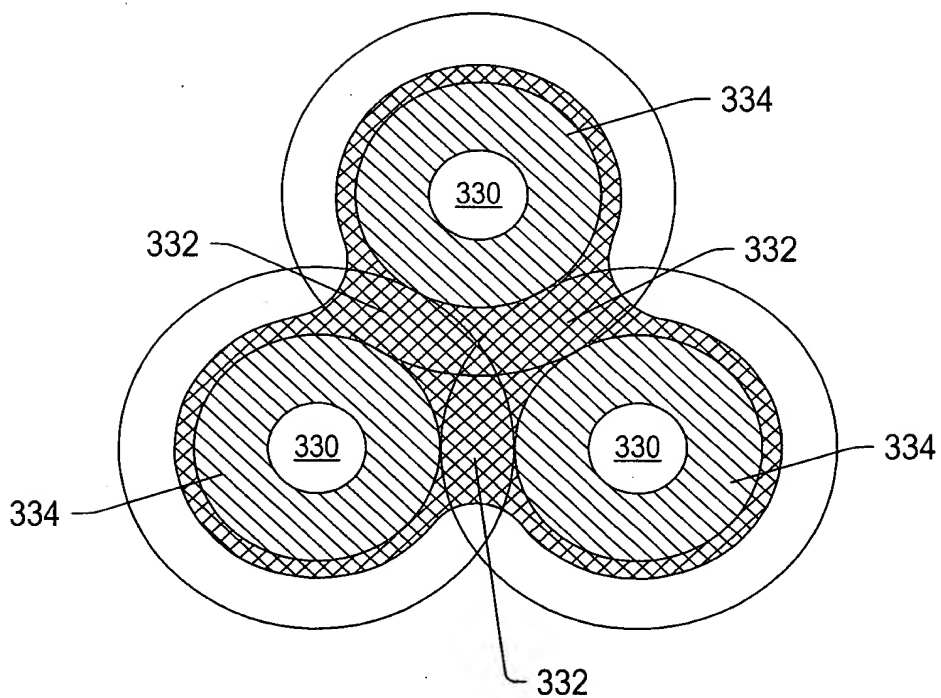


FIG. 7

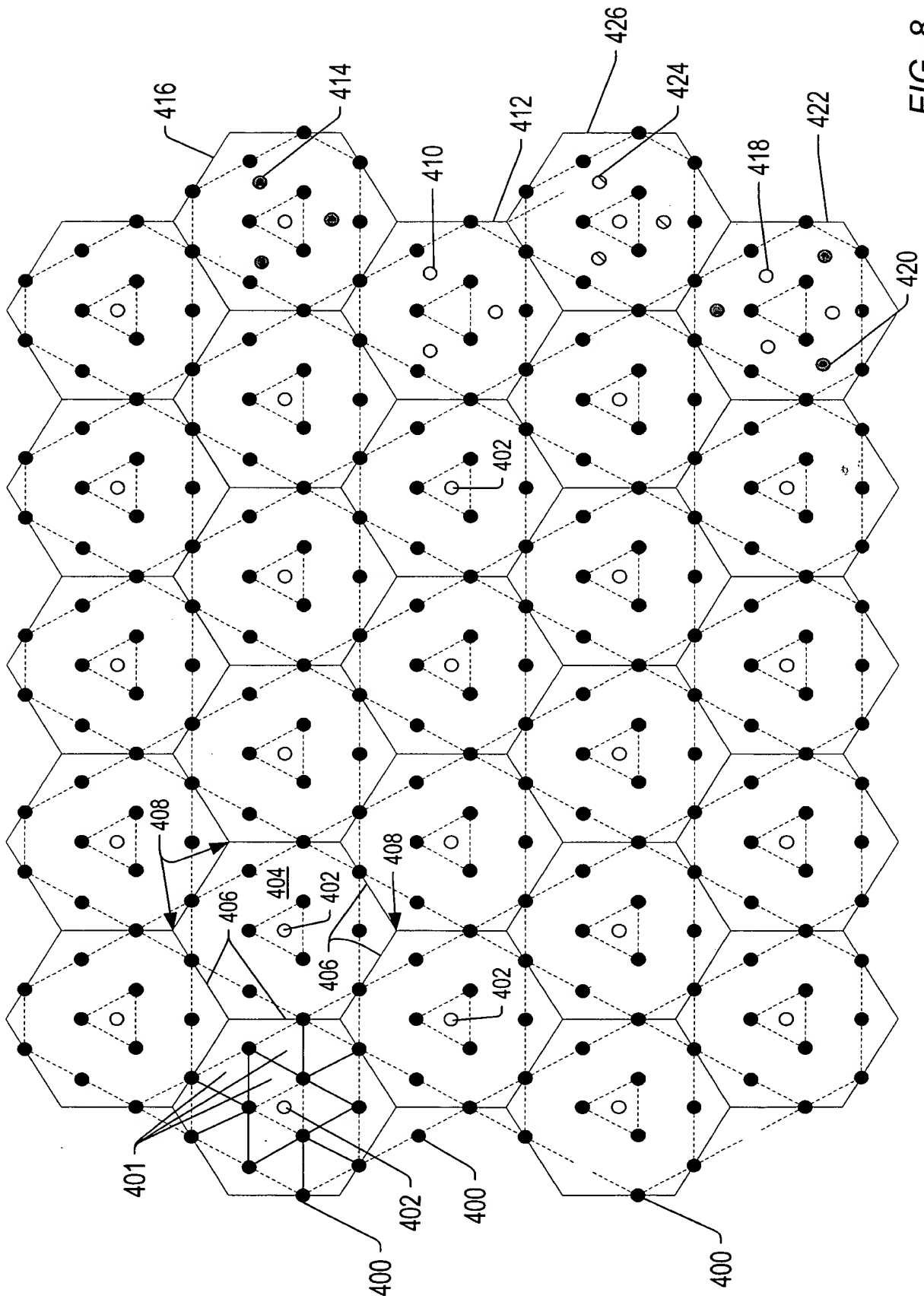


FIG. 8

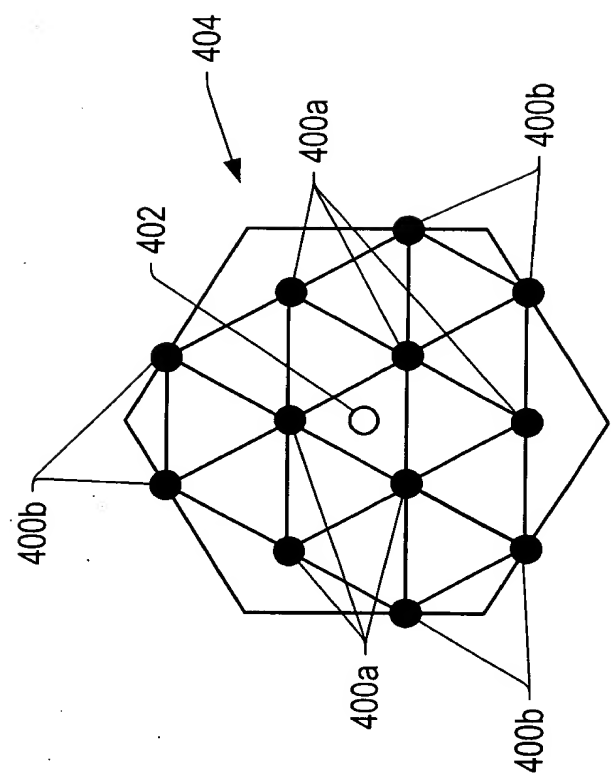


FIG. 9

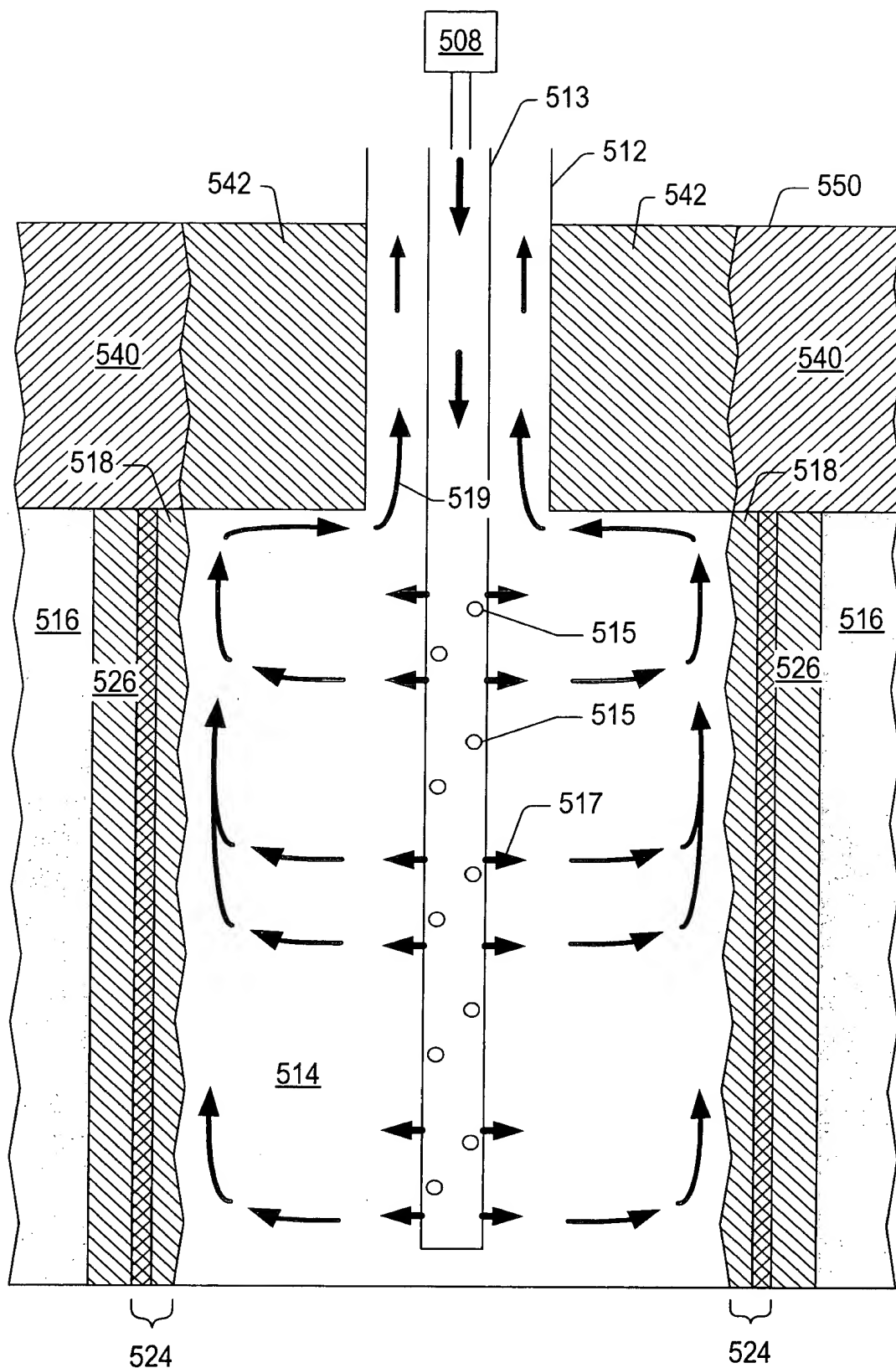


FIG. 10

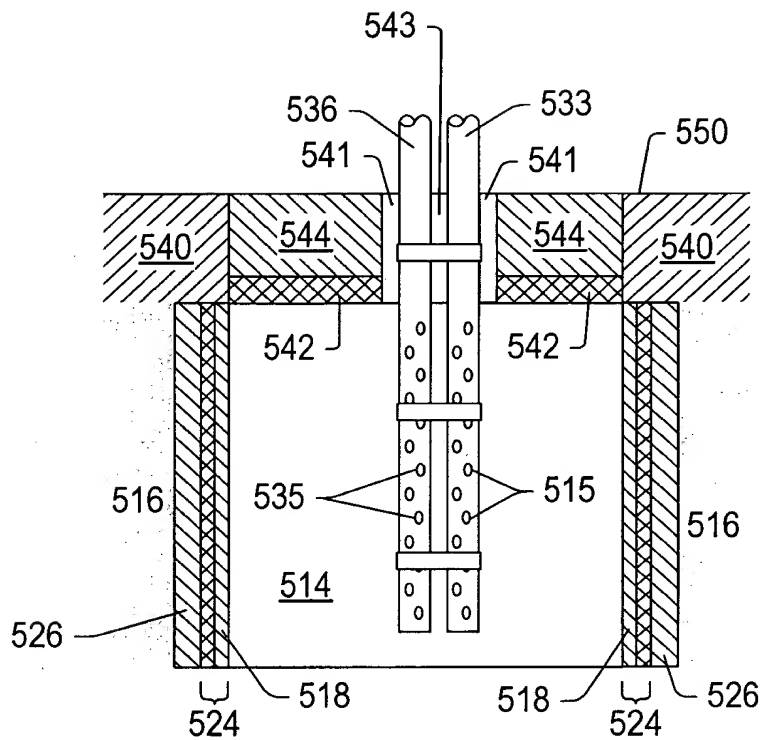


FIG. 13

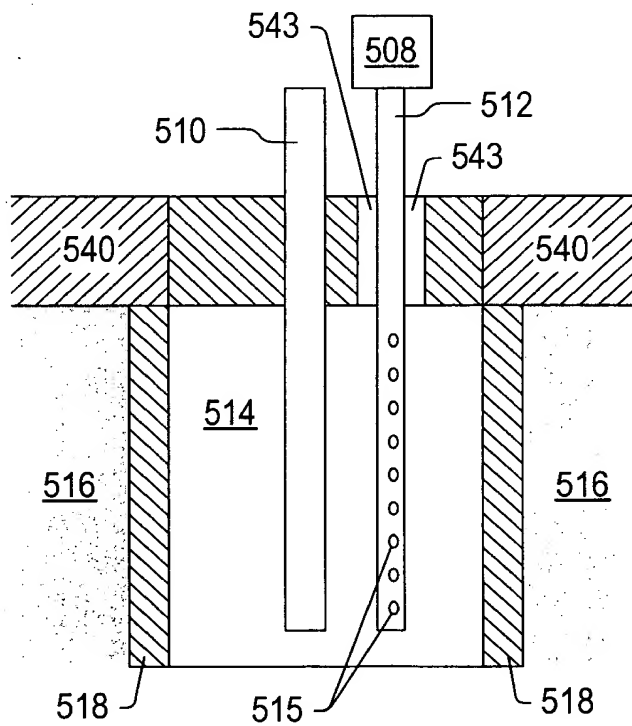


FIG. 14

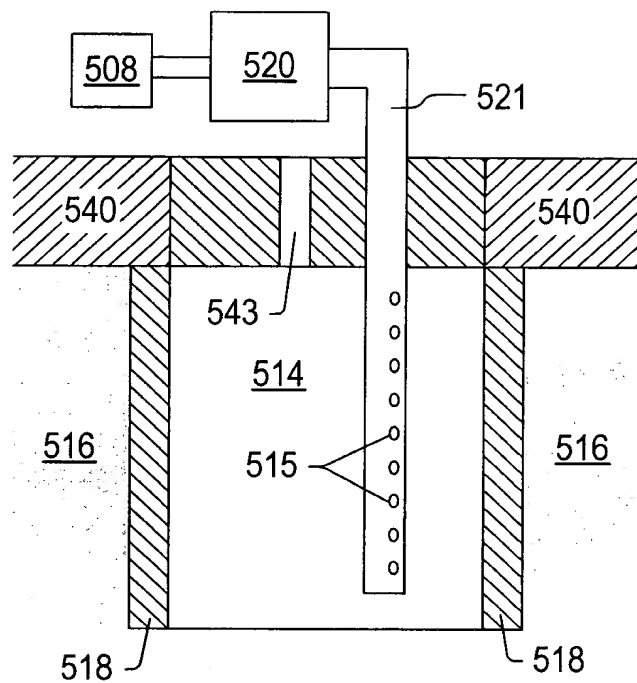


FIG. 15

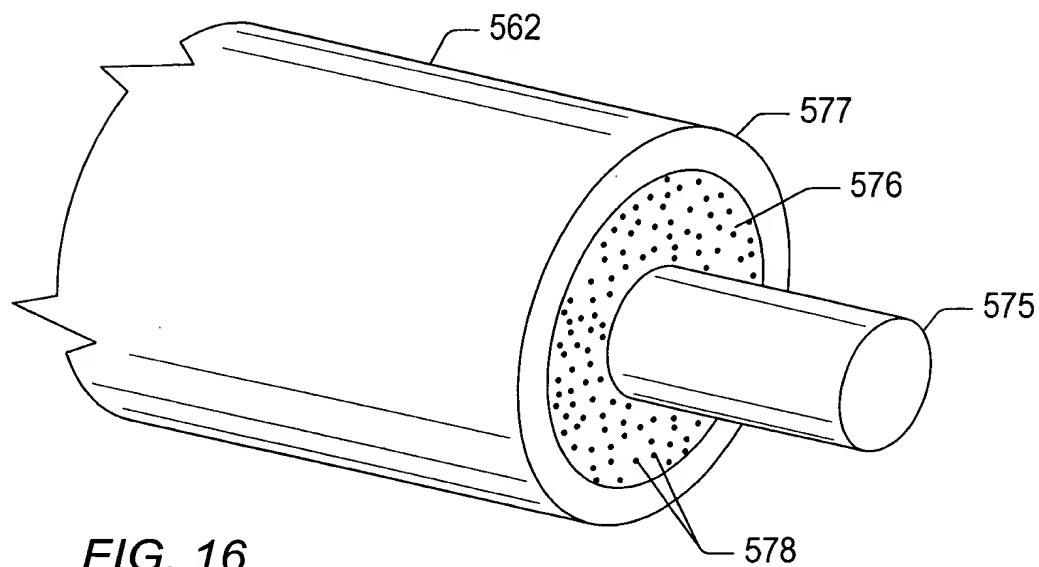


FIG. 16

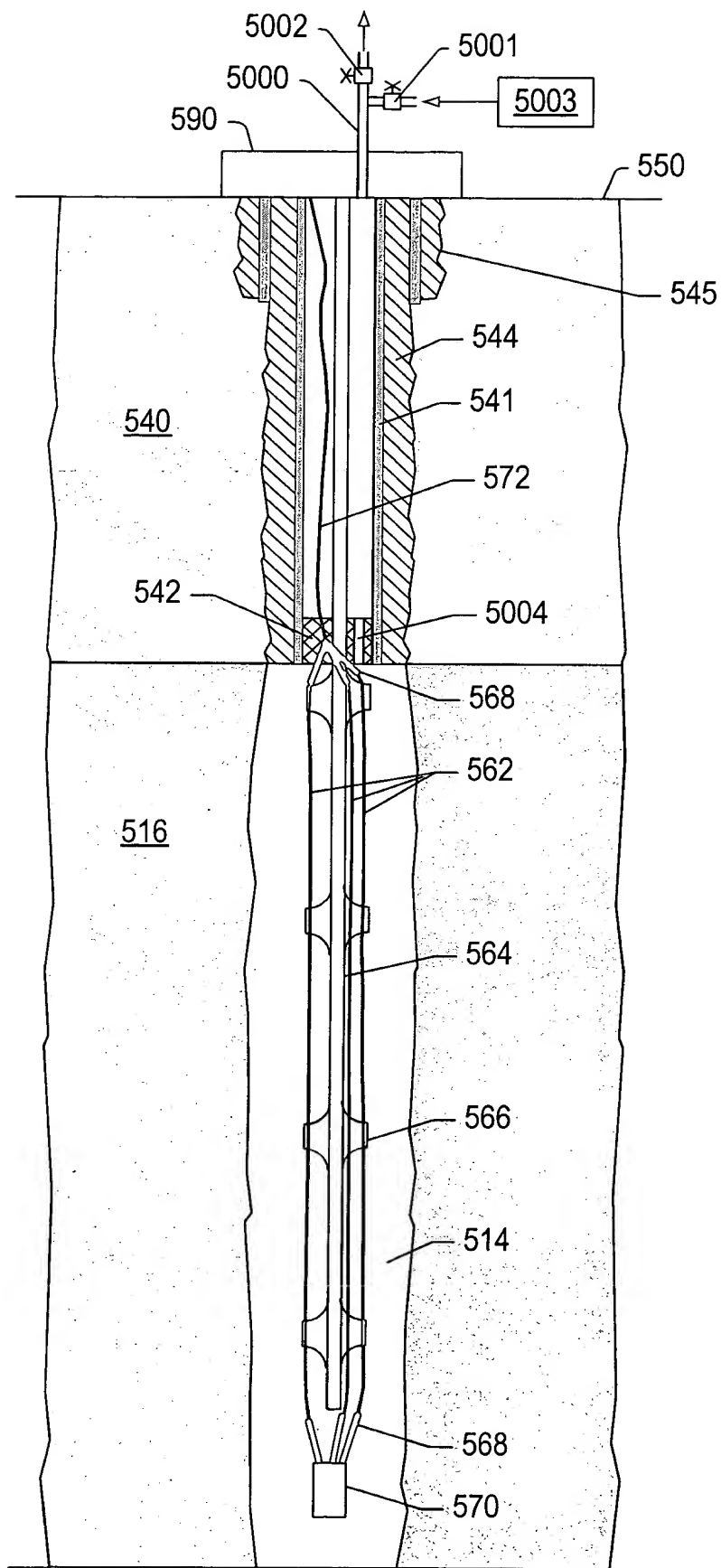


FIG. 17

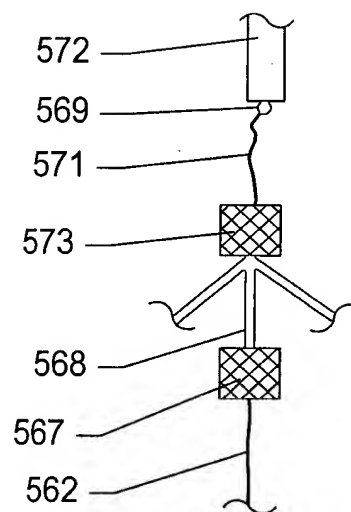


FIG. 17A

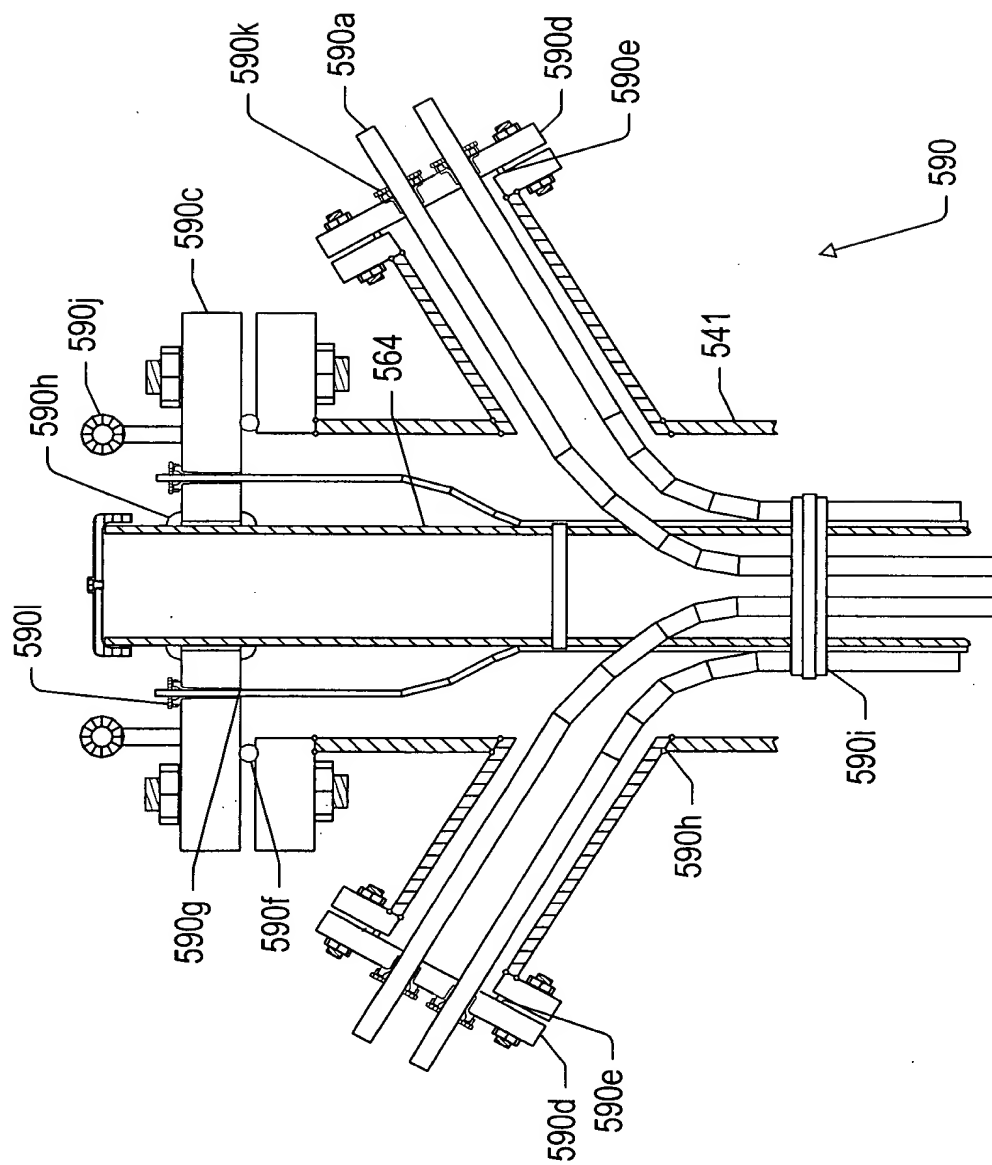


FIG. 18

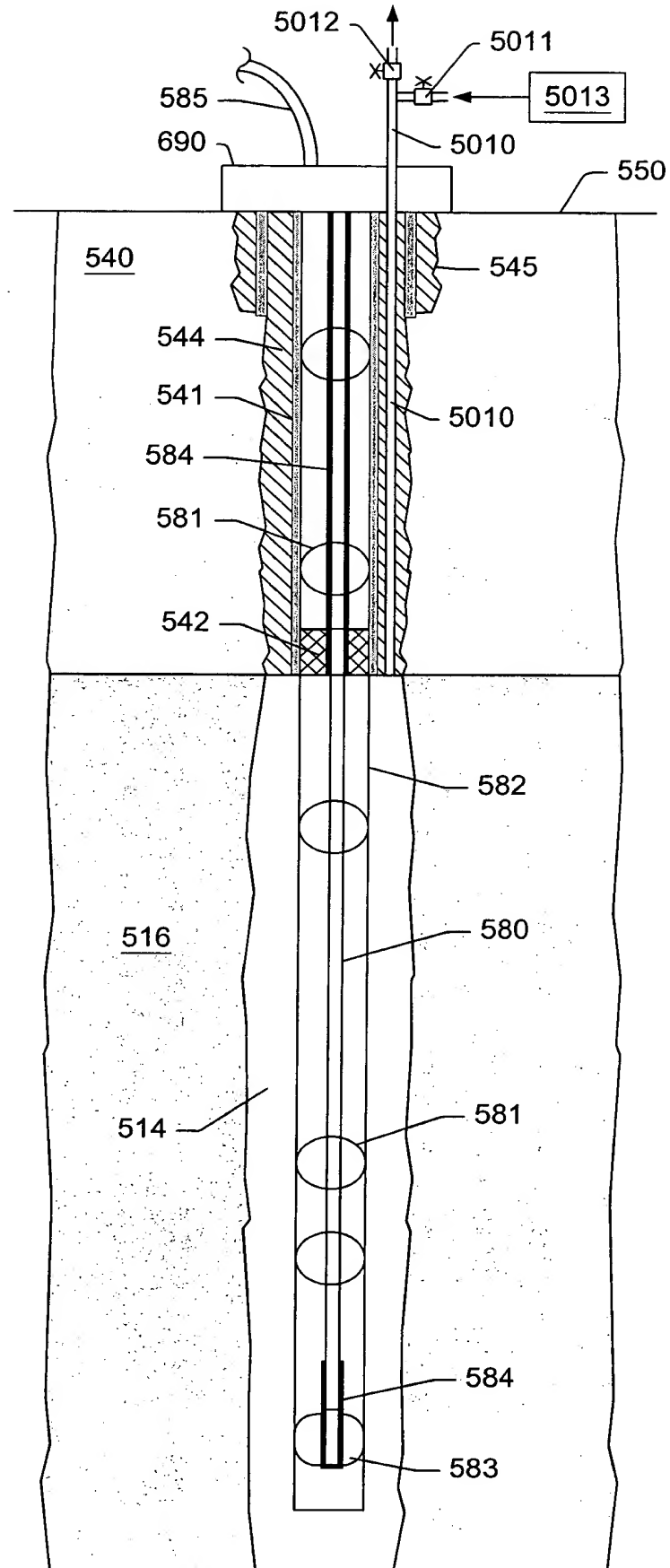


FIG. 19

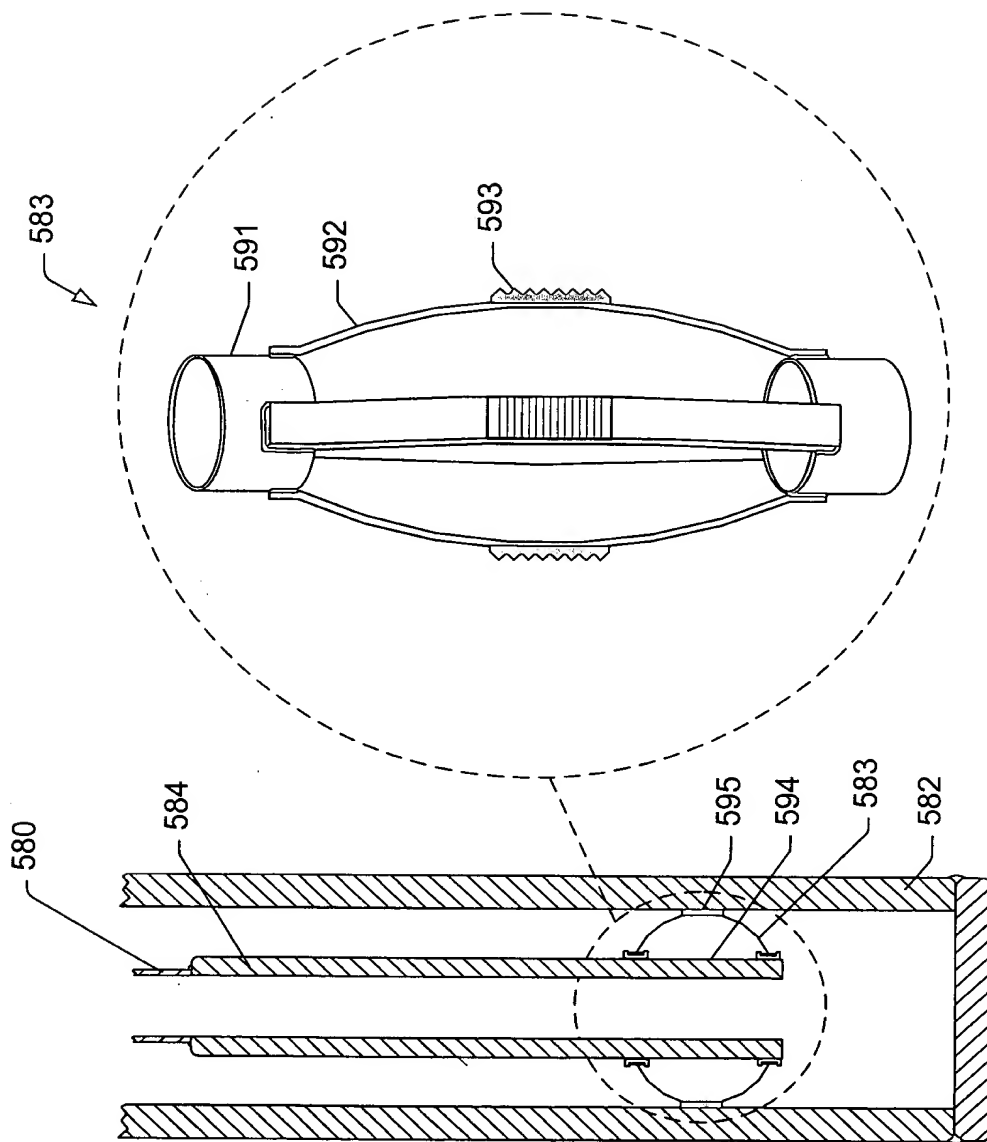


FIG. 20

FIG. 21

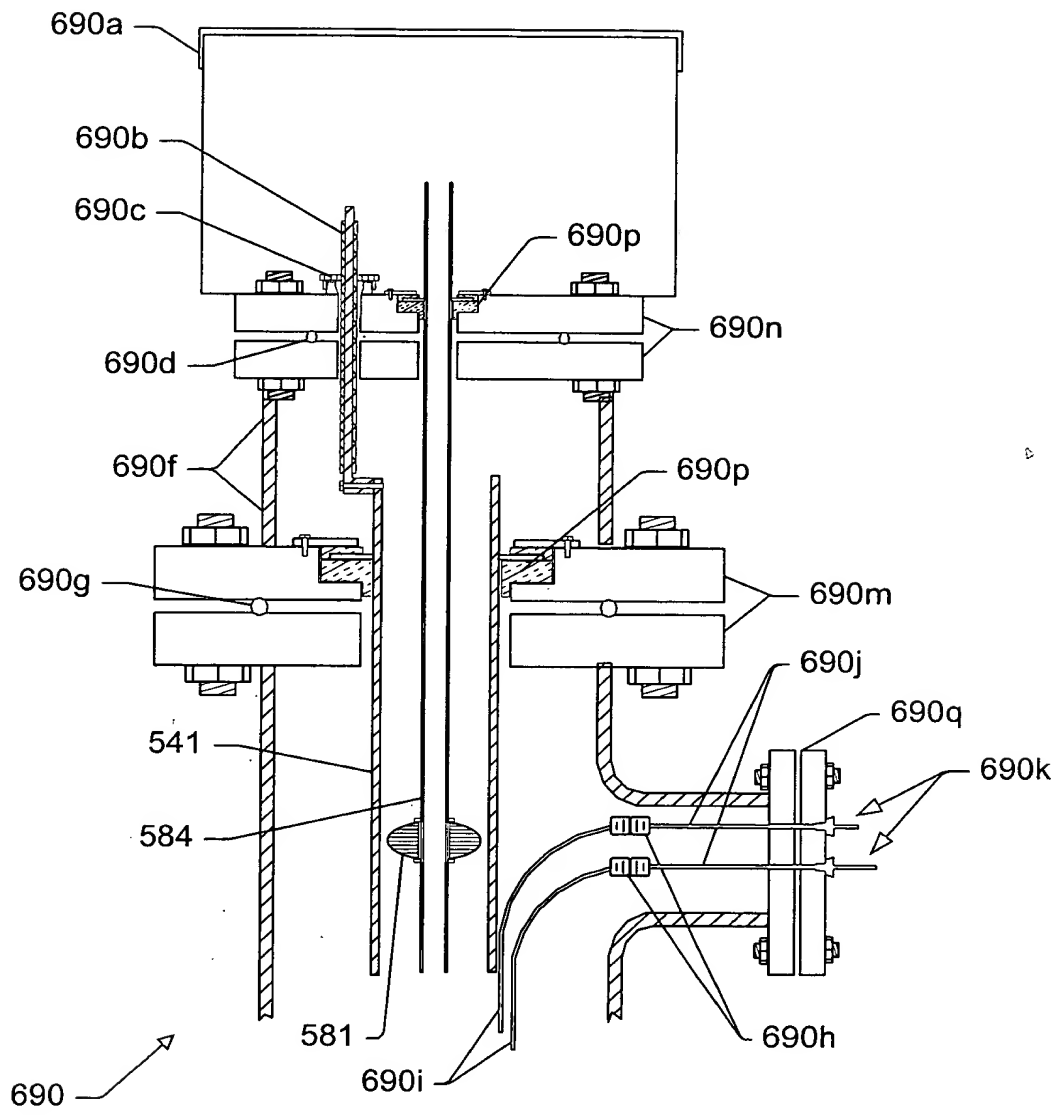


FIG. 21

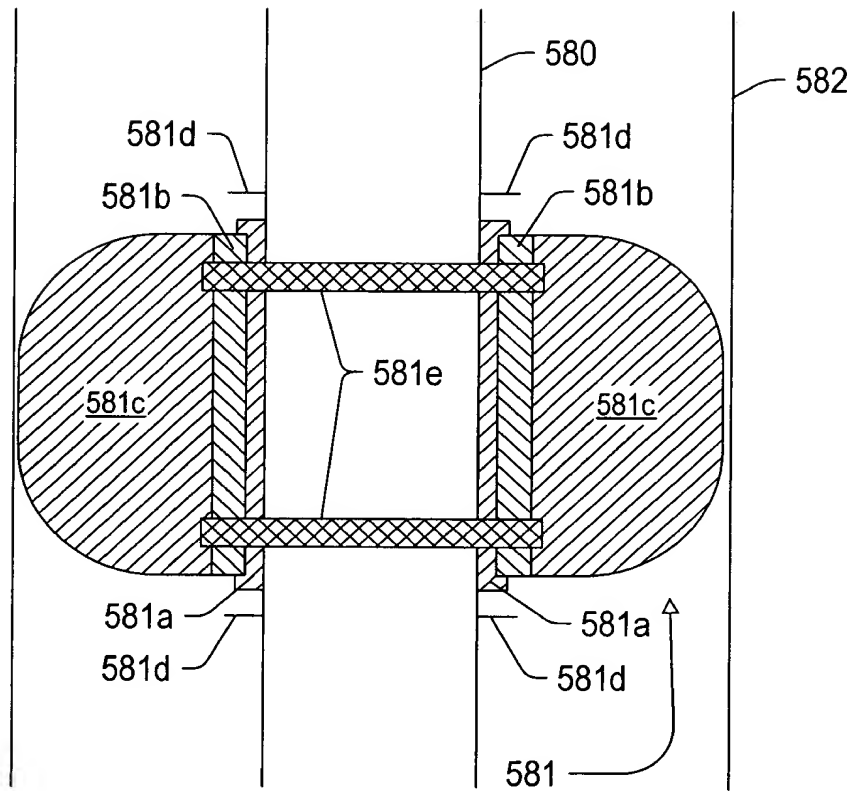


FIG. 22

Approved
69
9-12-02

Patent = 3,443,333

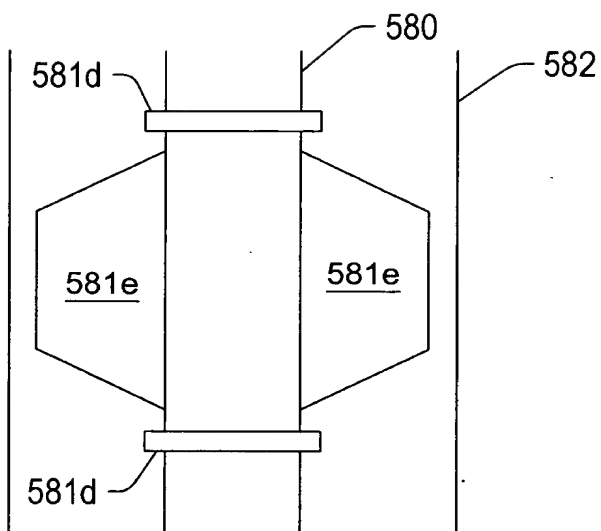


FIG. 23a

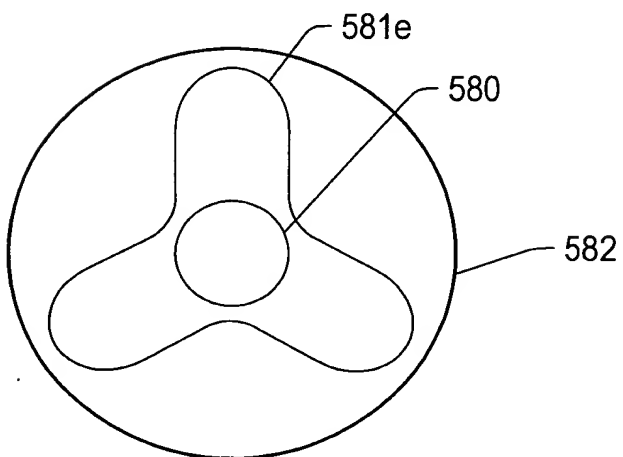


FIG. 23b

FIG. 24

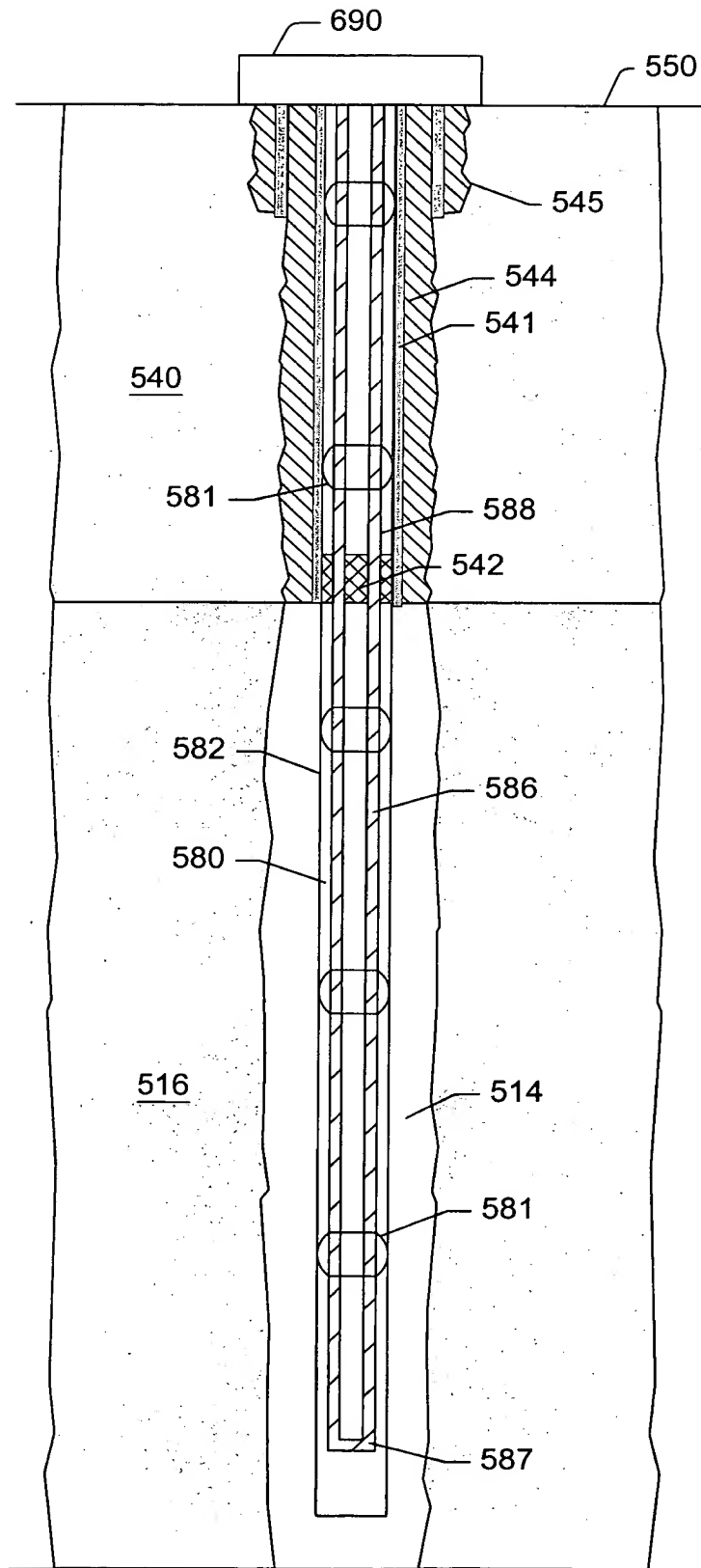


Fig. 24

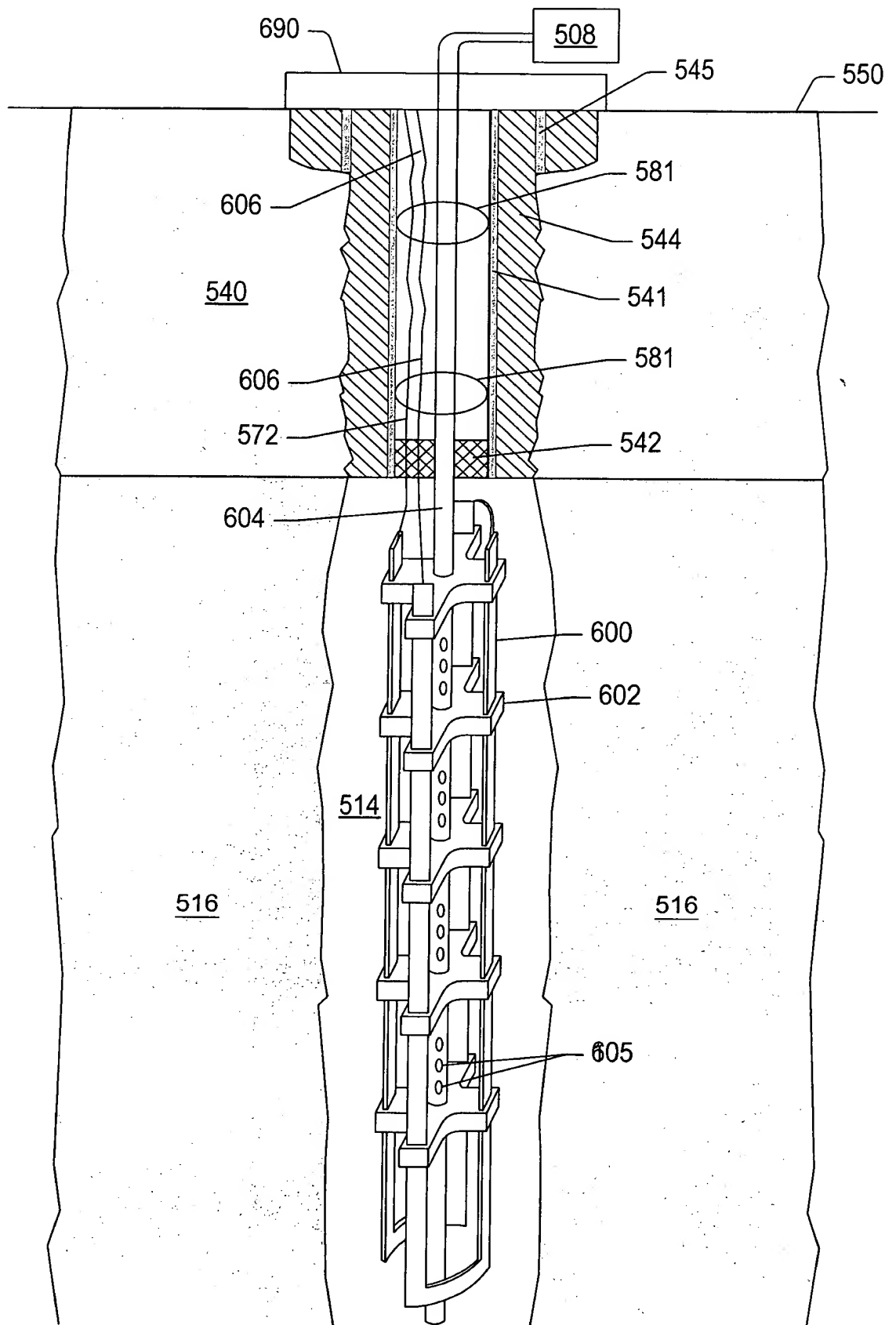


FIG. 25

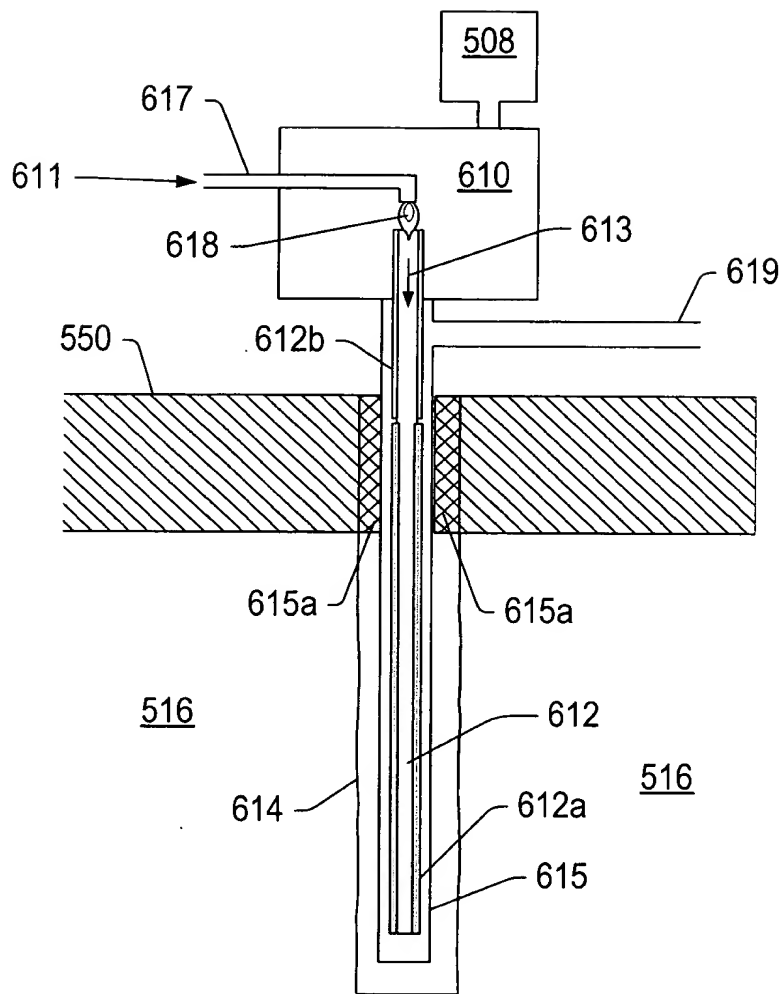


FIG. 26

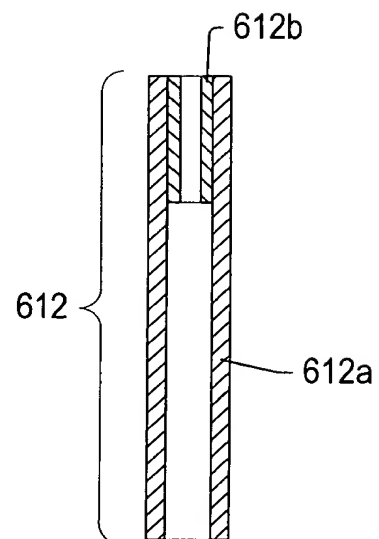


FIG. 27

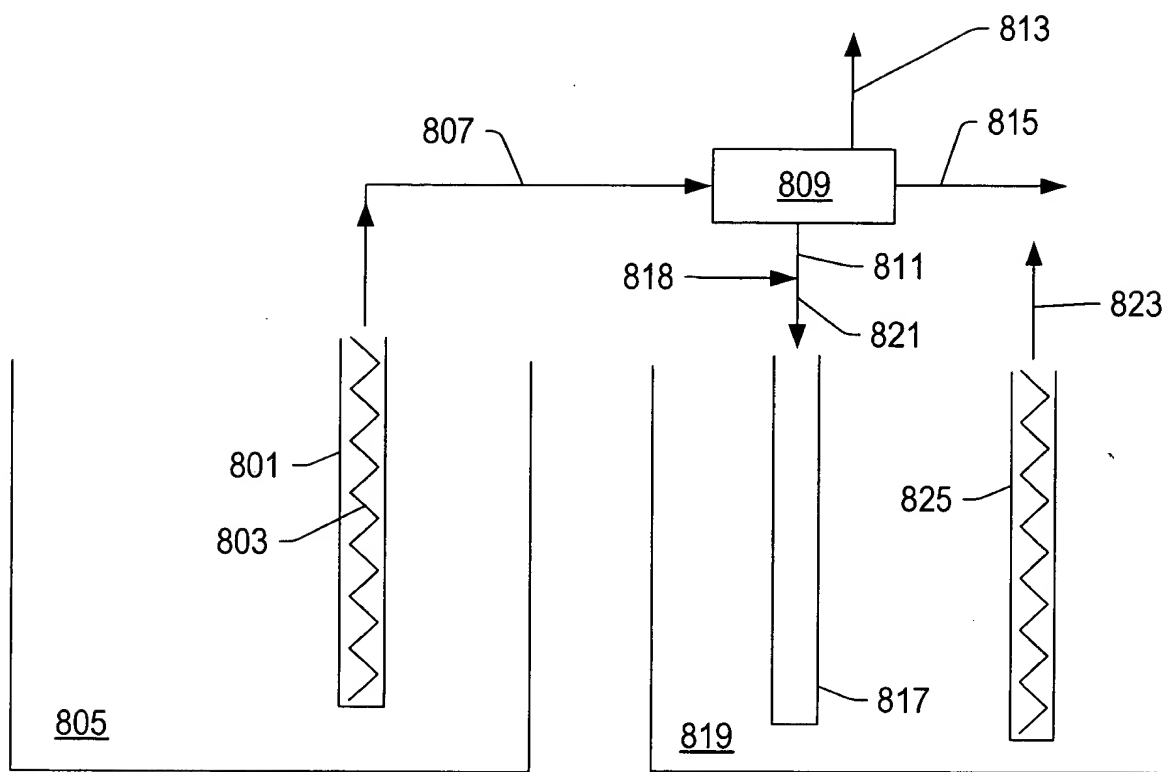


FIG. 29

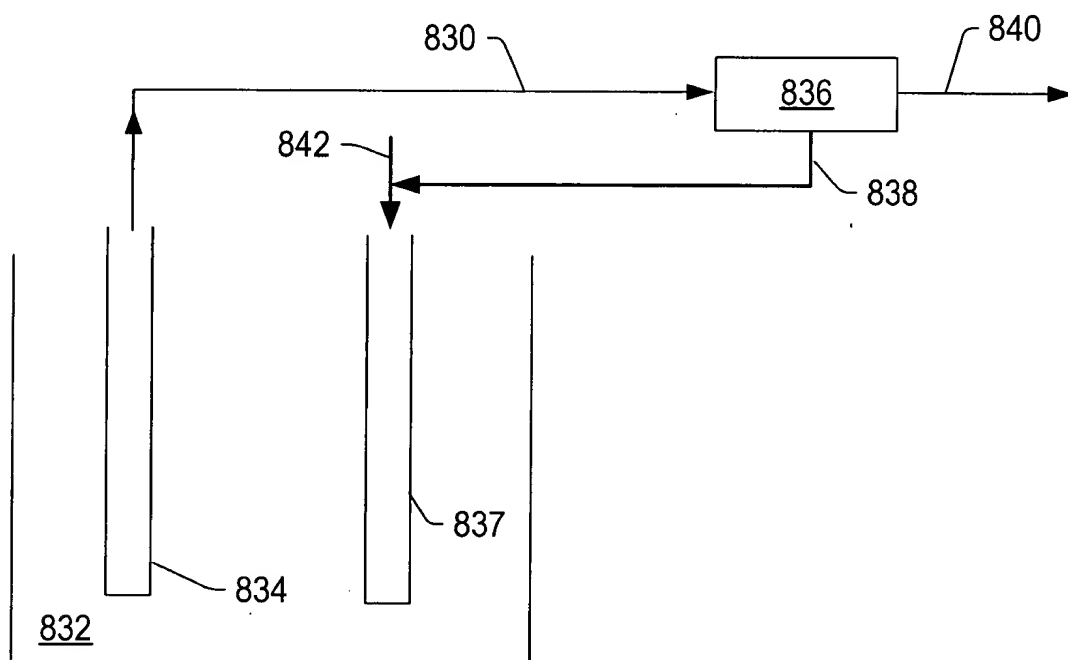


FIG. 30

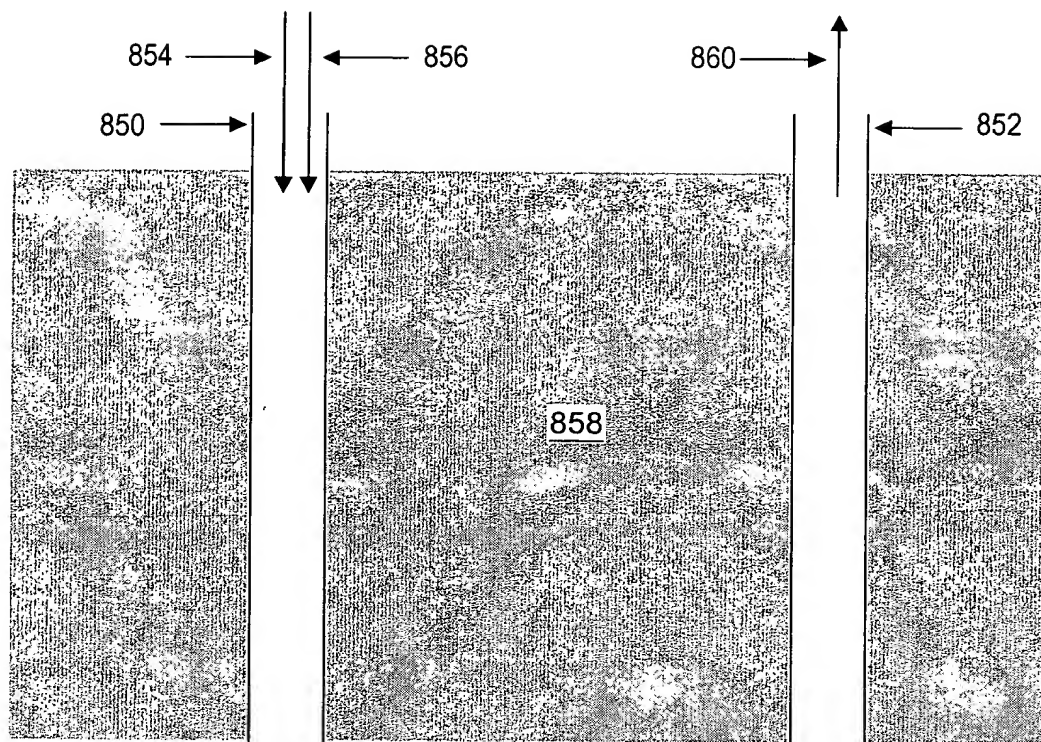


FIG. 31

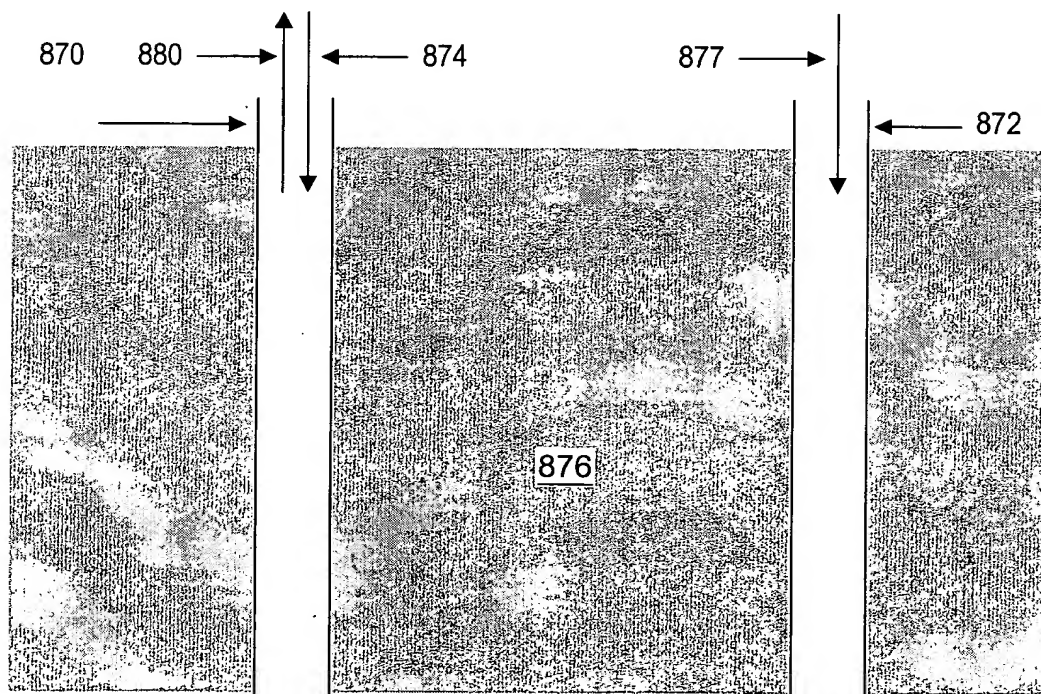
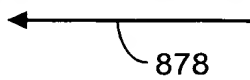


FIG. 32



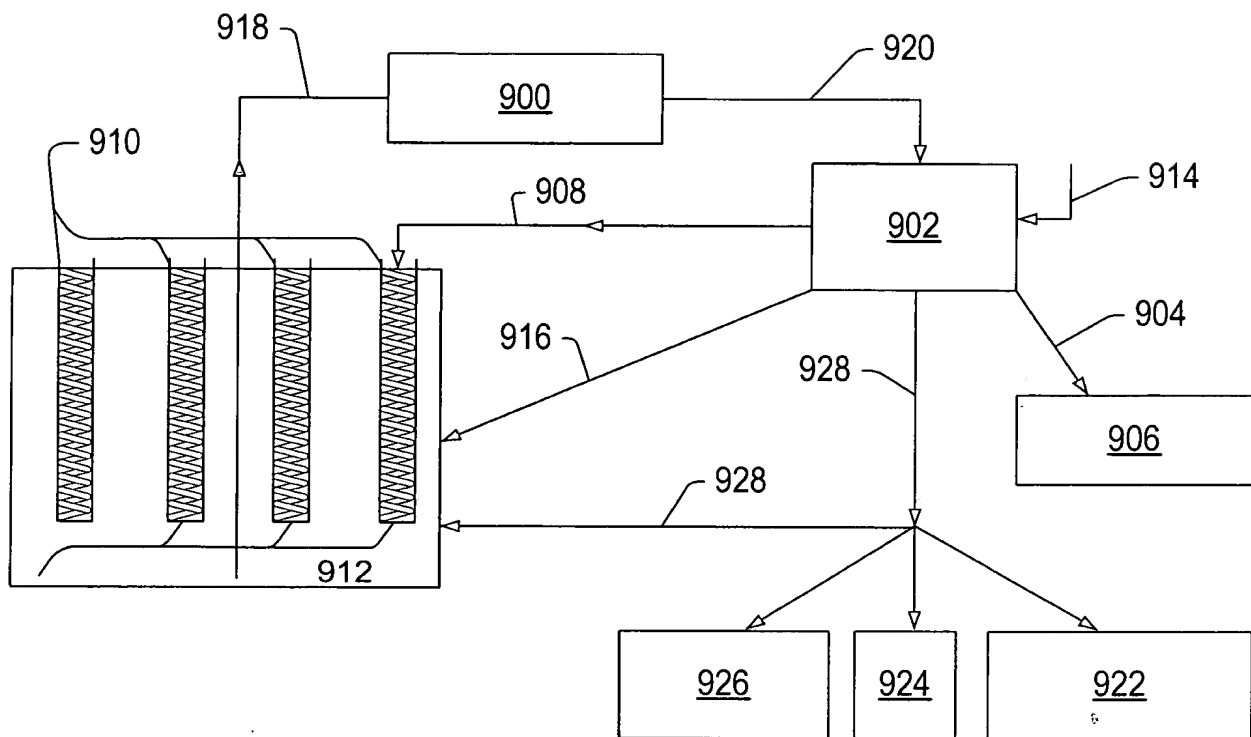


FIG. 33

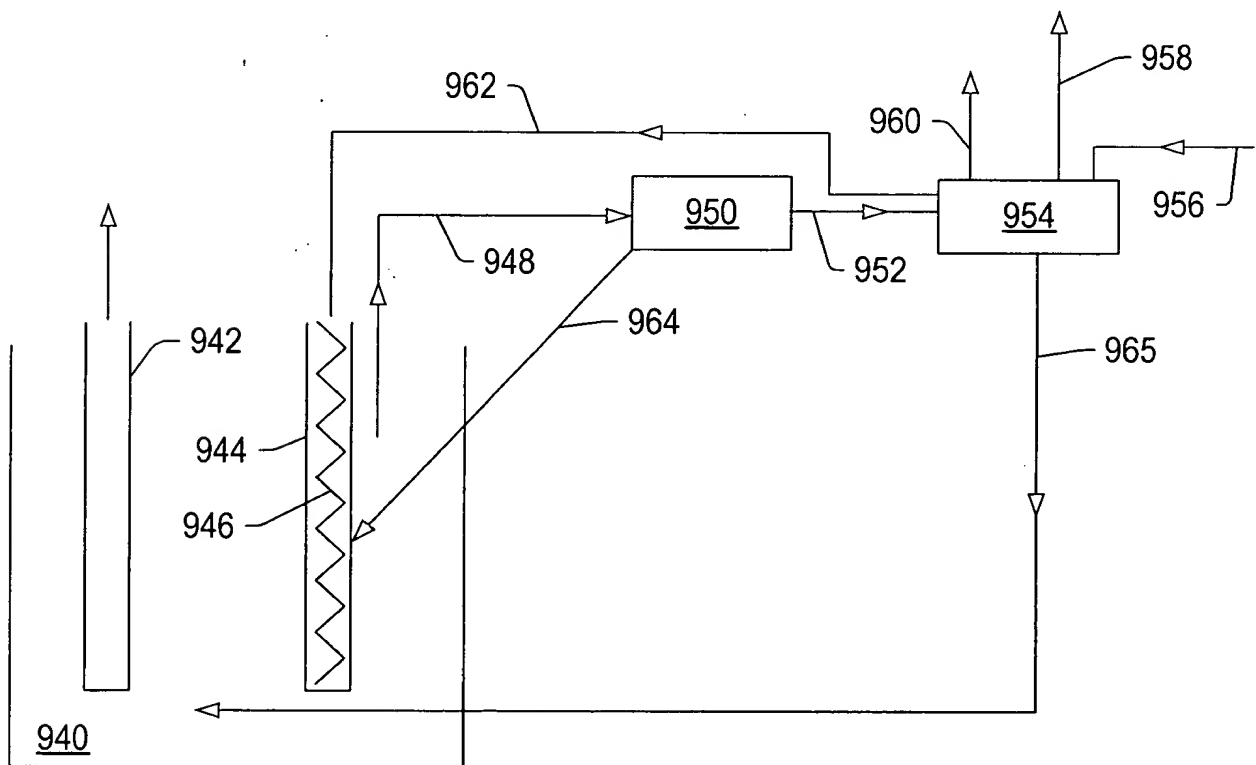


FIG. 34

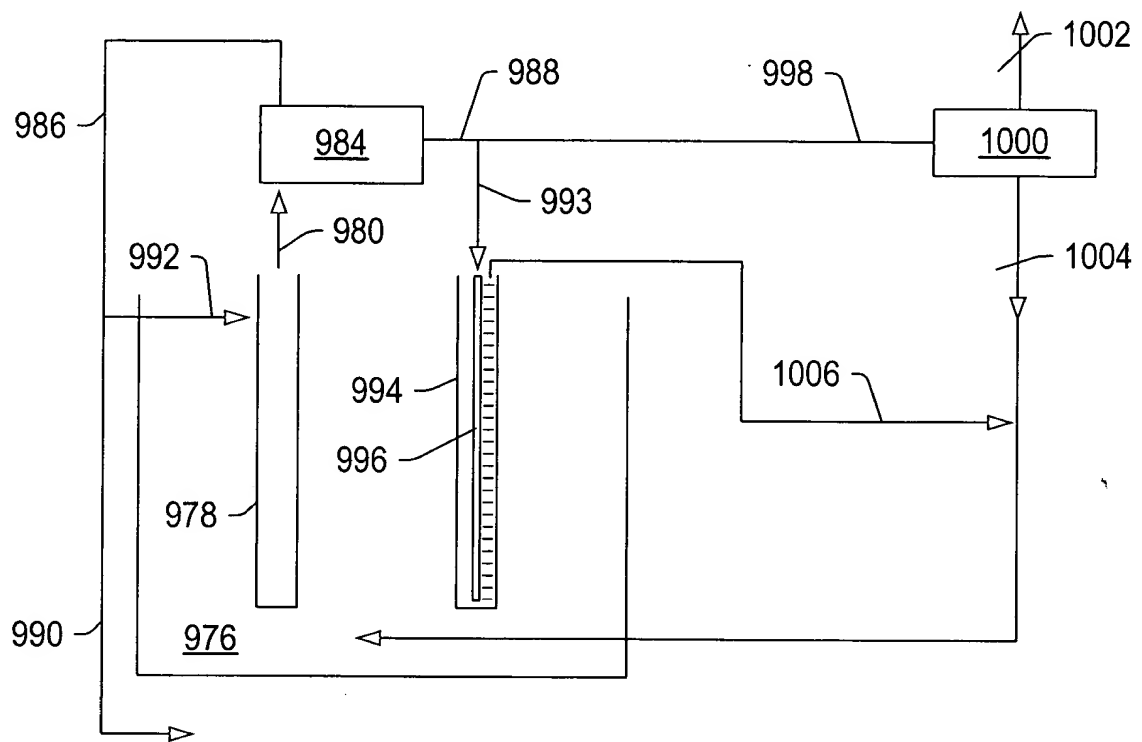


FIG. 35

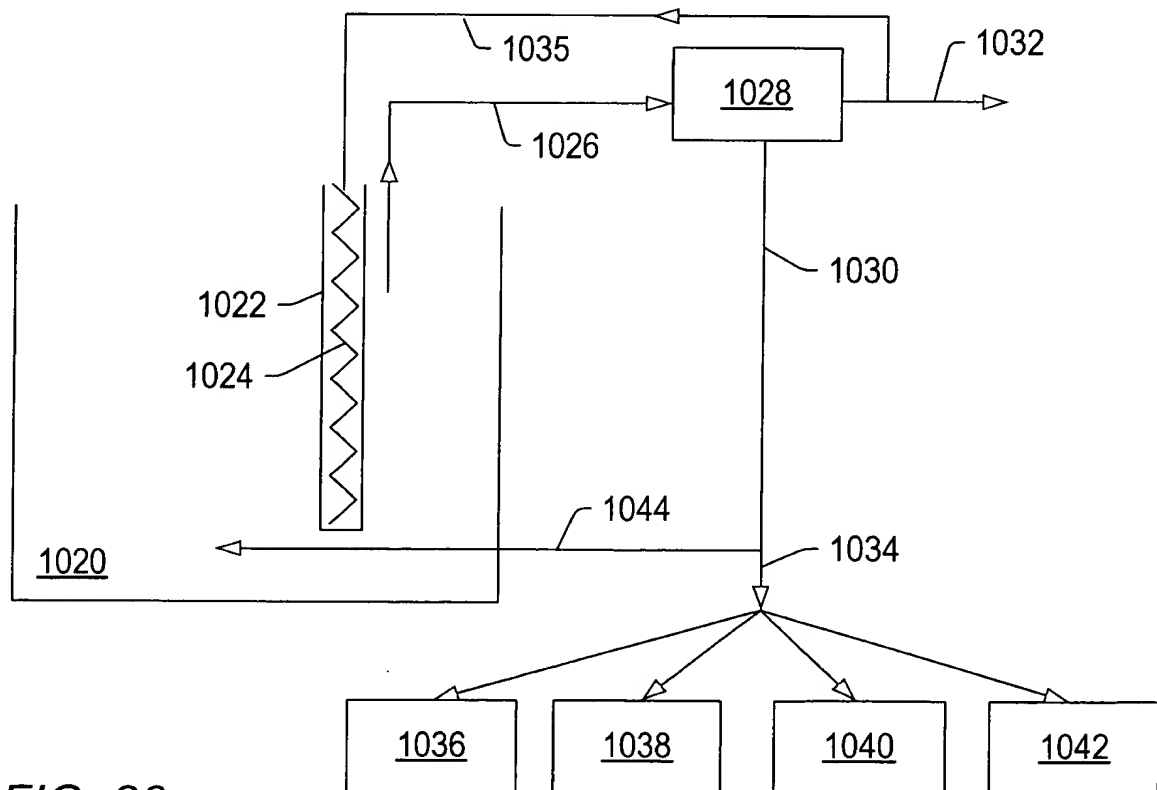


FIG. 36

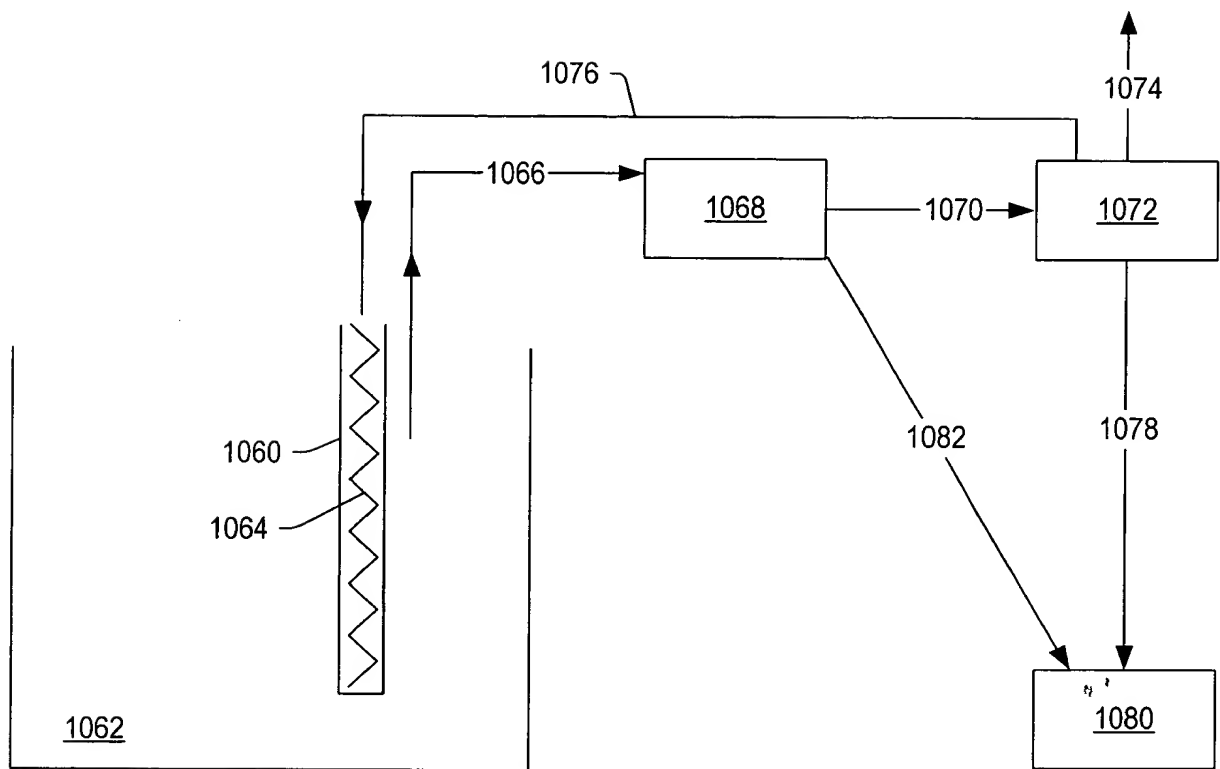


FIG. 37

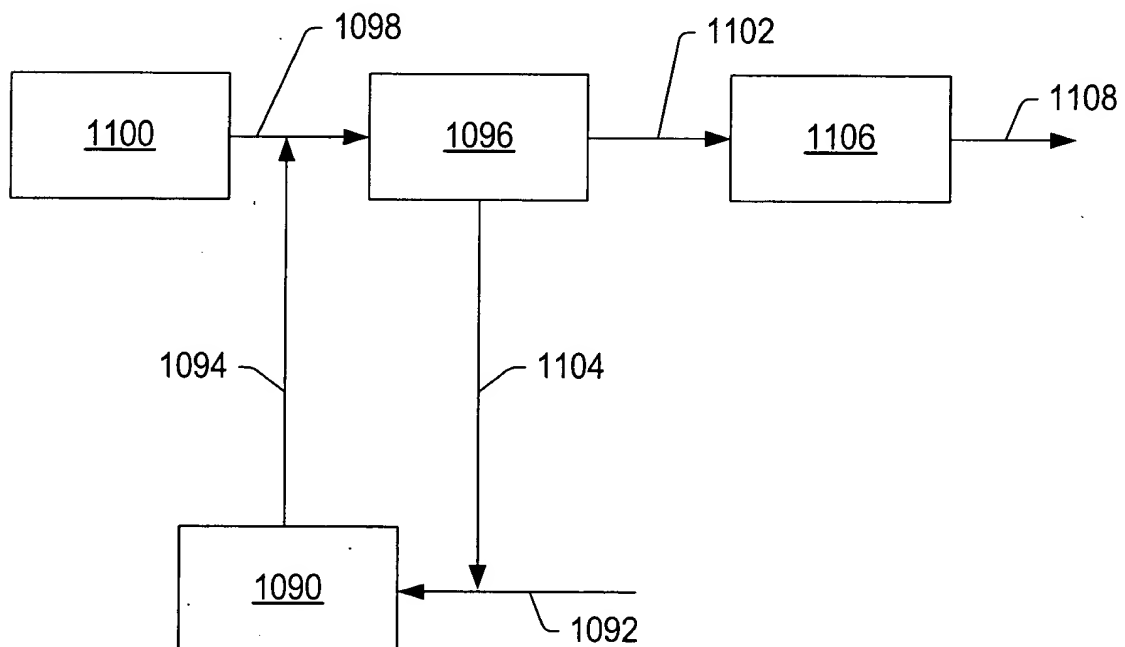


FIG. 38

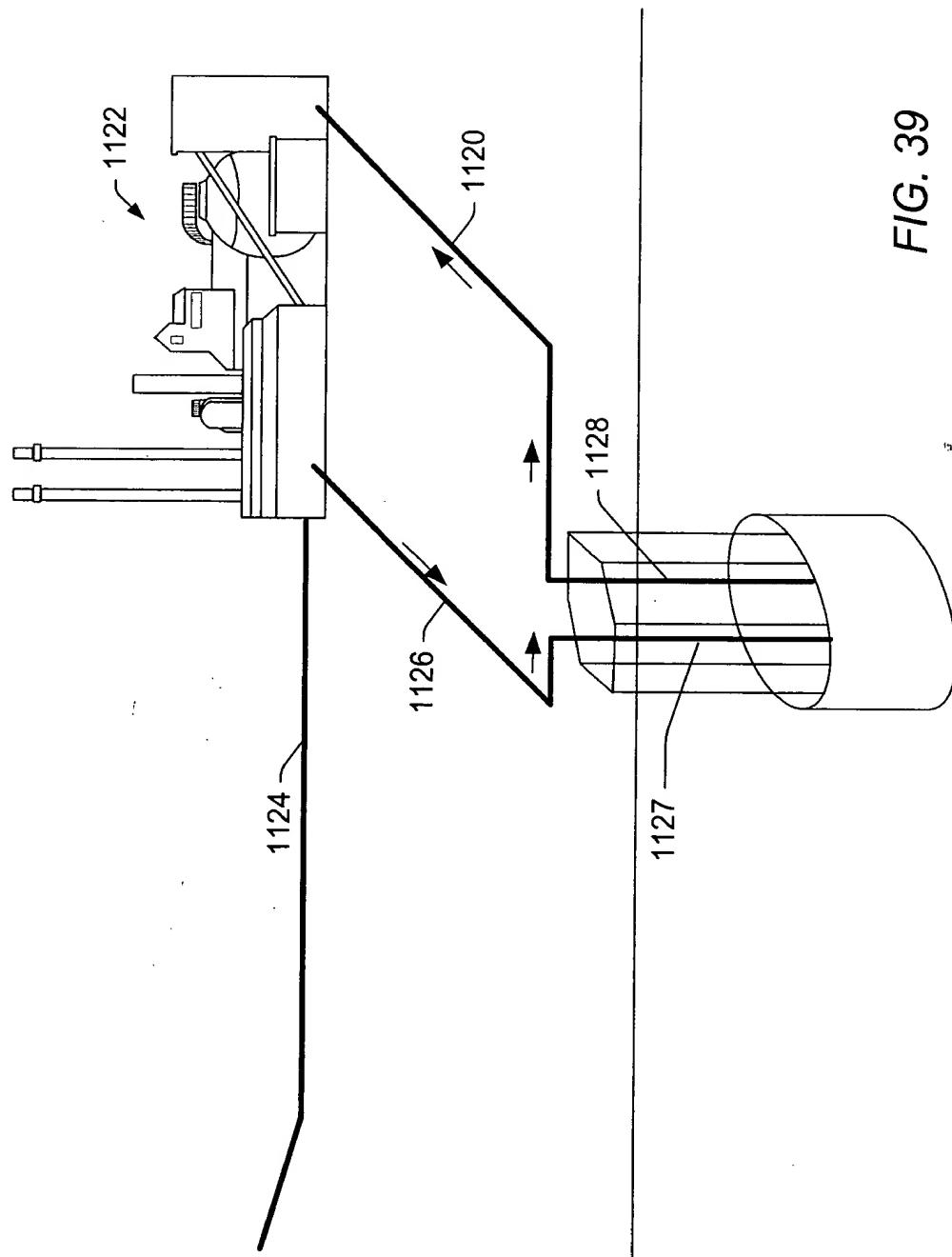


FIG. 39

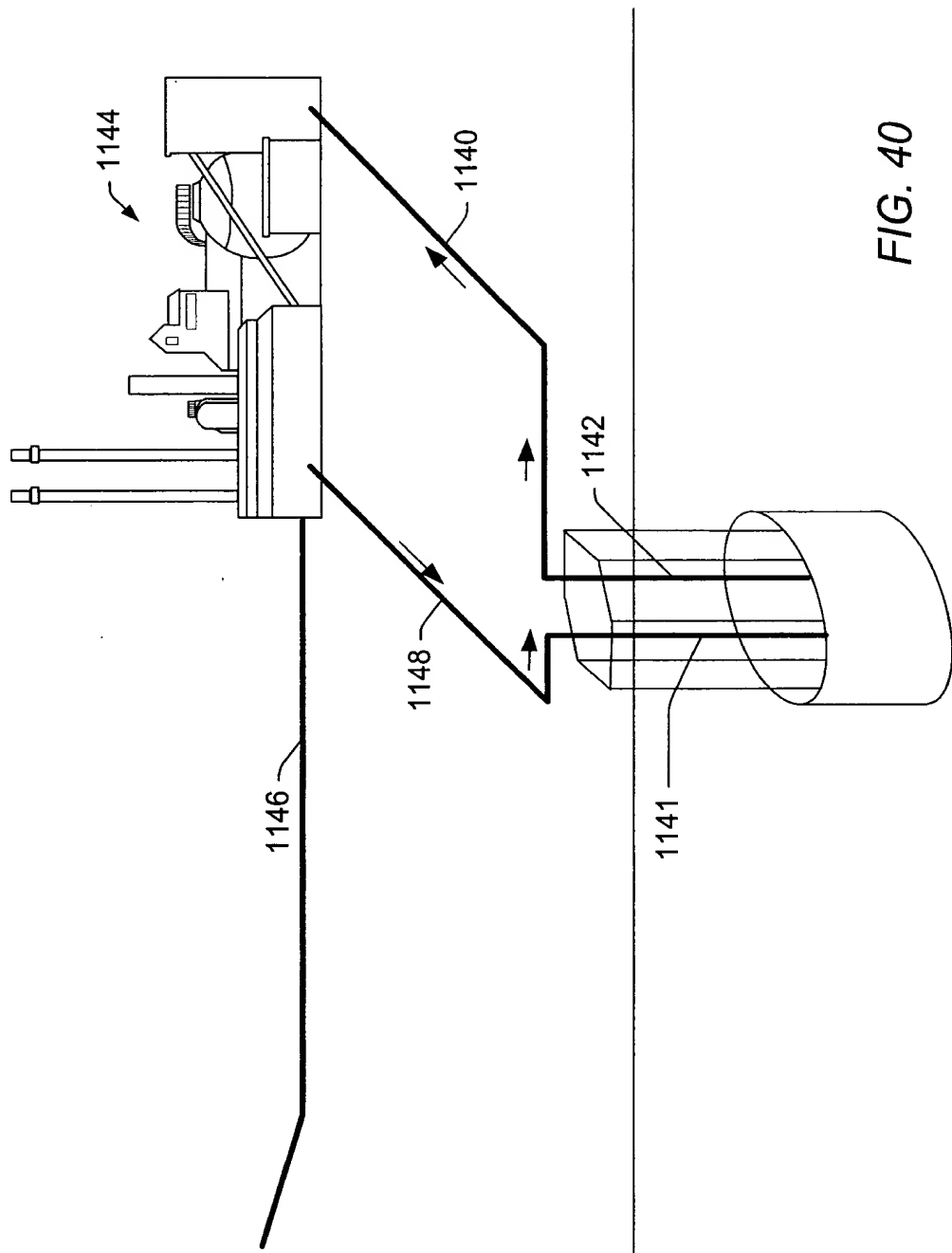


FIG. 40

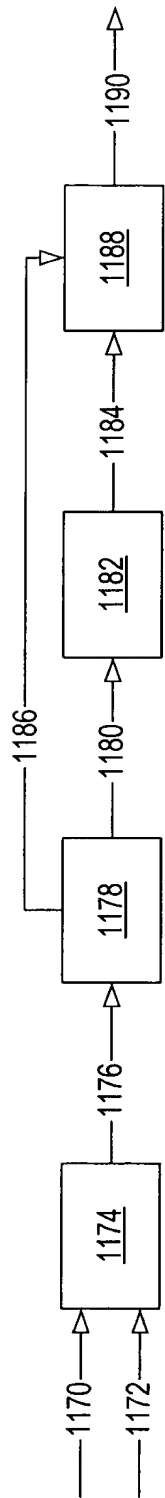


FIG. 41

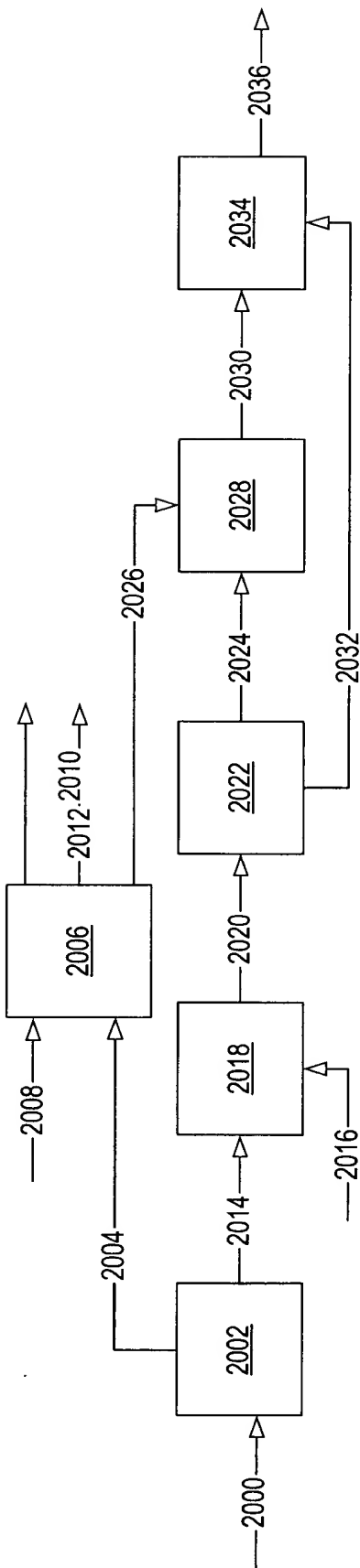


FIG. 42

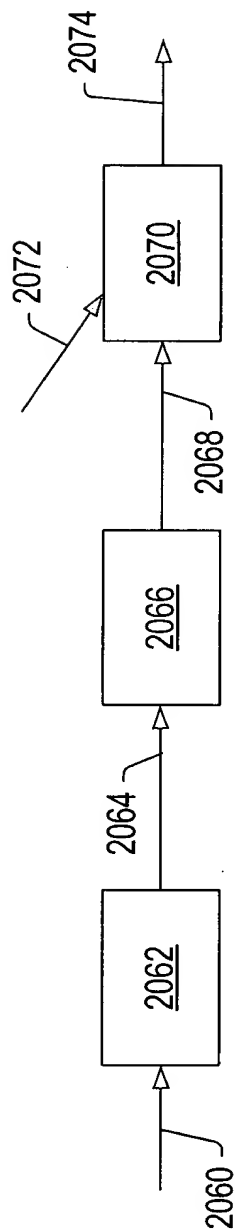


FIG. 43

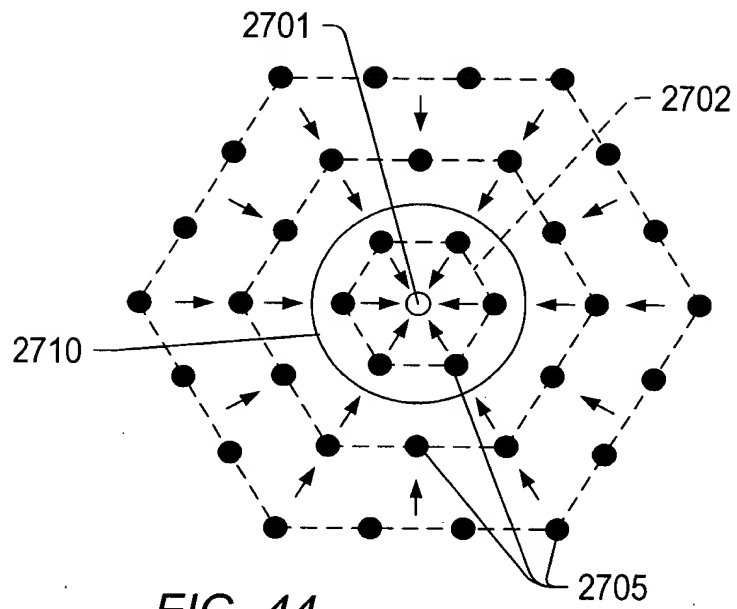


FIG. 44

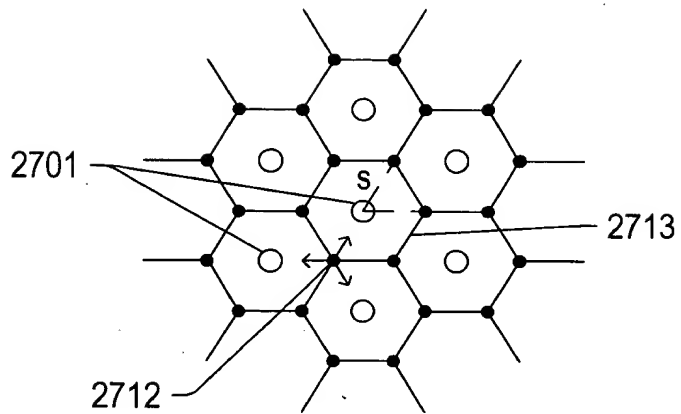


FIG. 45

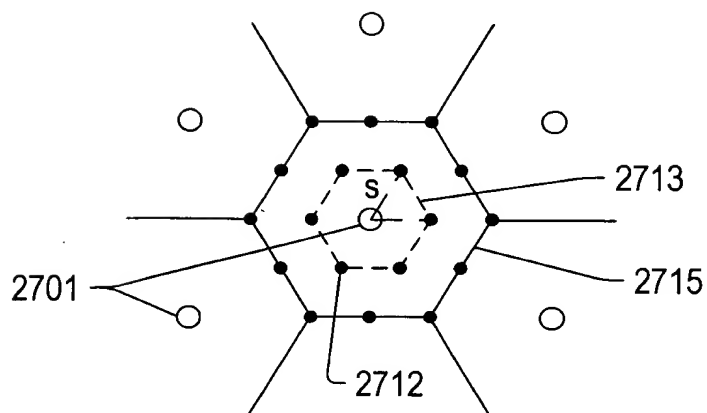


FIG. 46

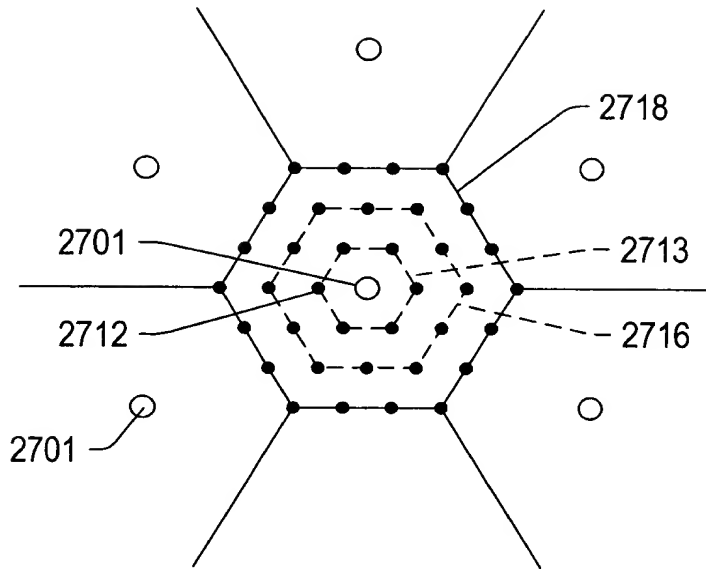


FIG. 47

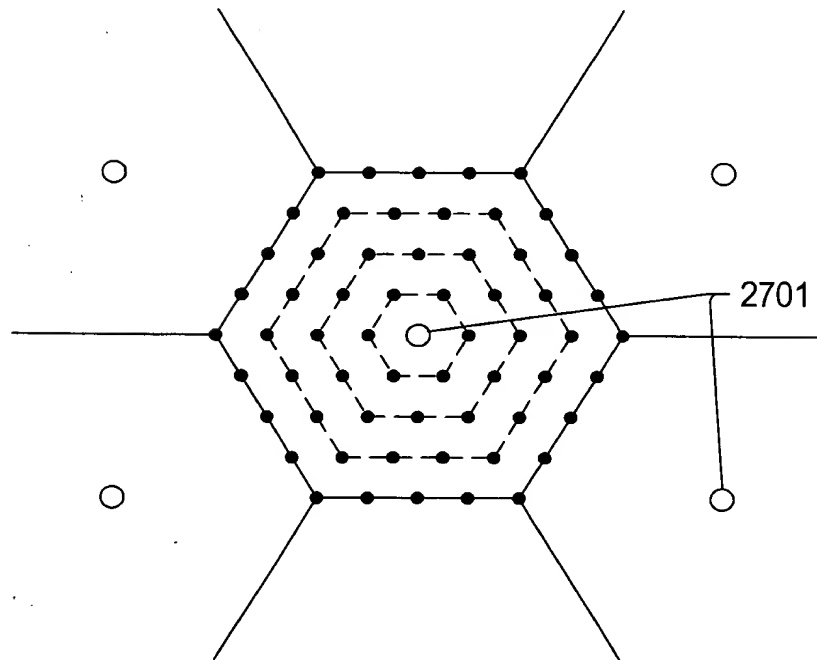


FIG. 48

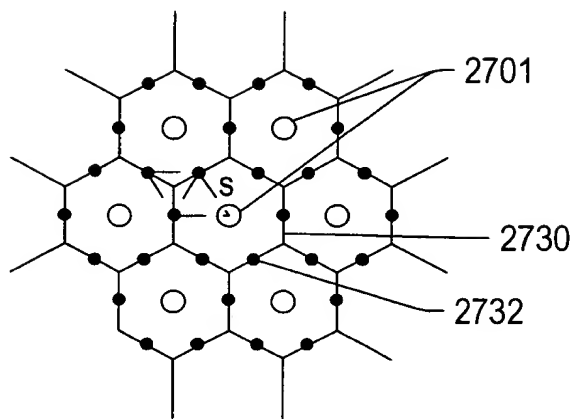


FIG. 49

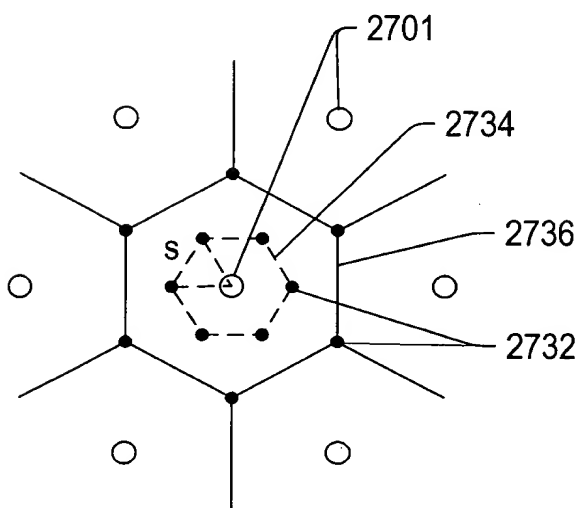


FIG. 50

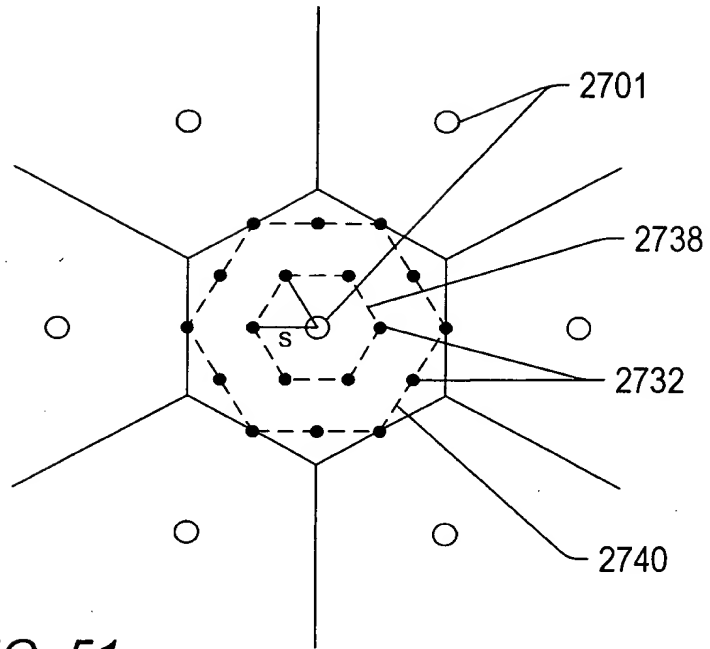


FIG. 51

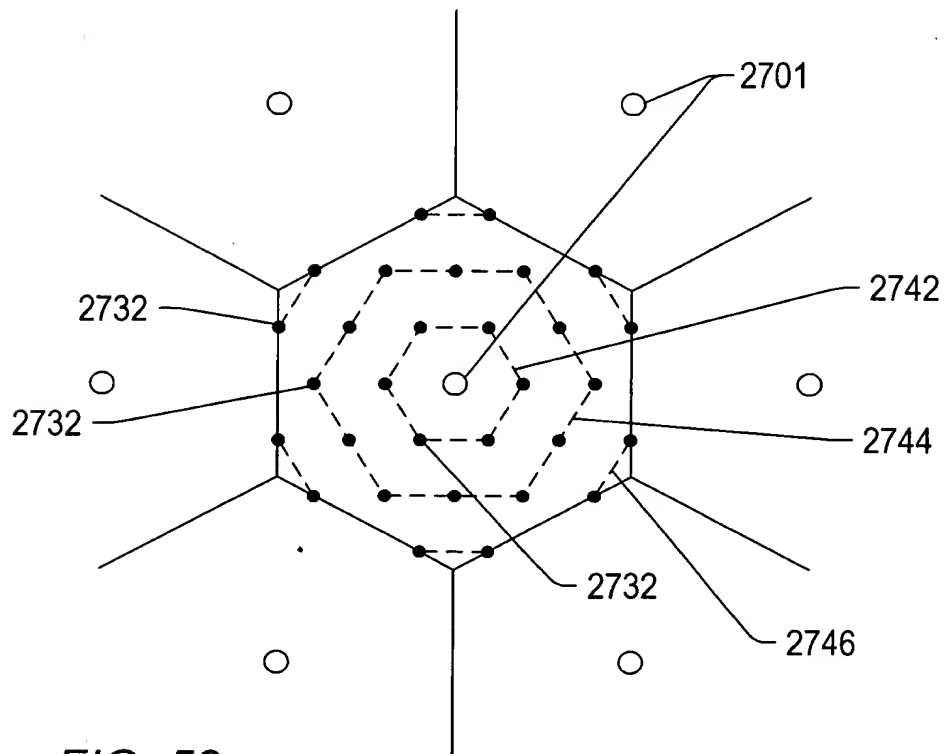


FIG. 52

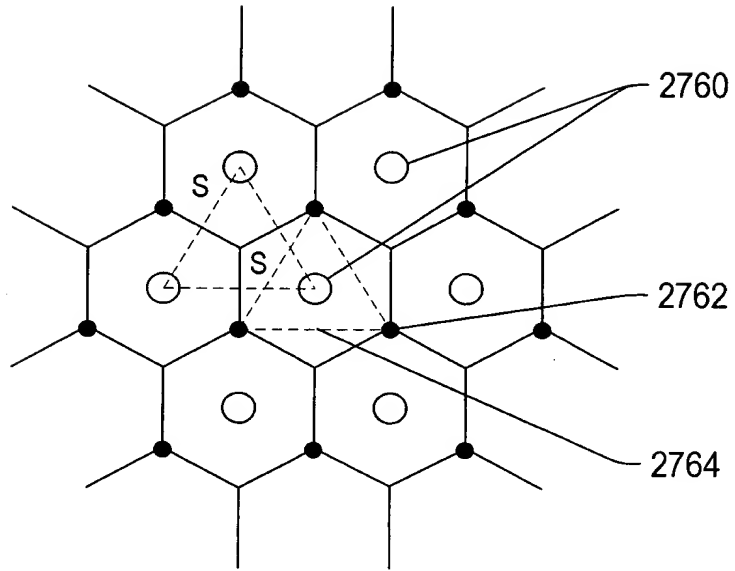


FIG. 53

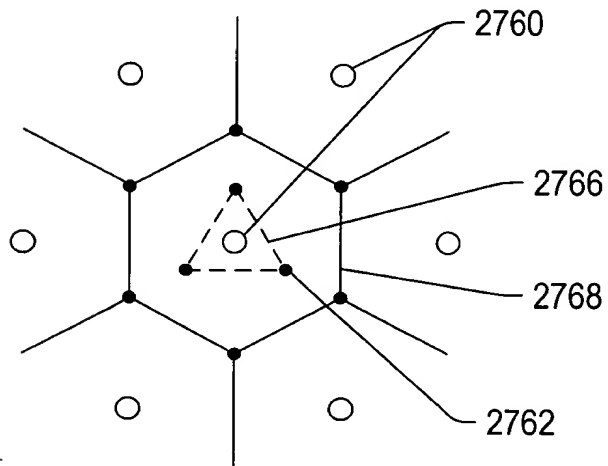


FIG. 54

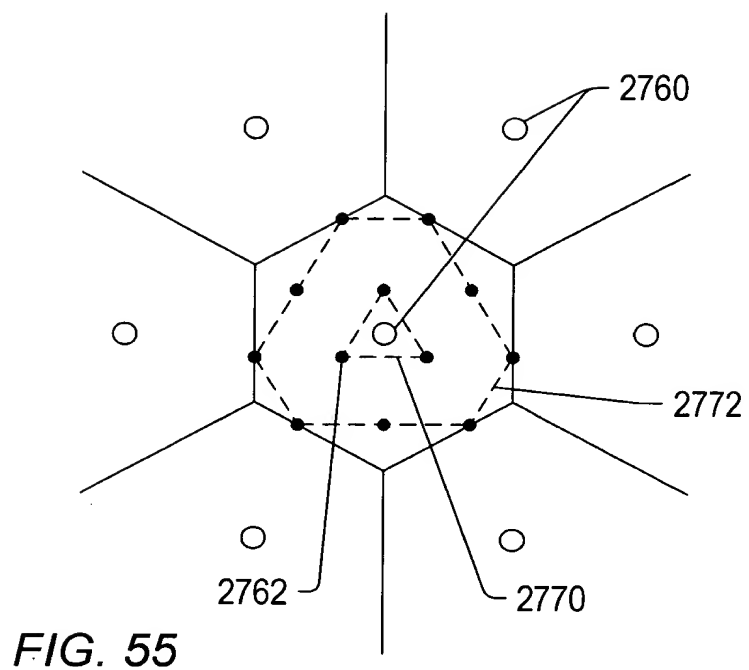


FIG. 55

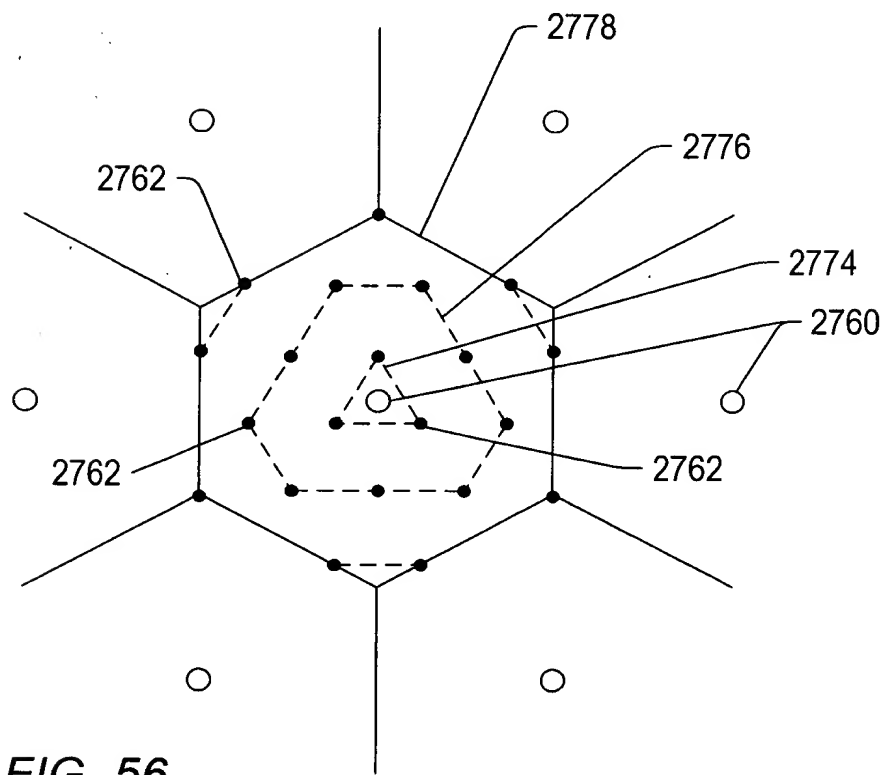


FIG. 56

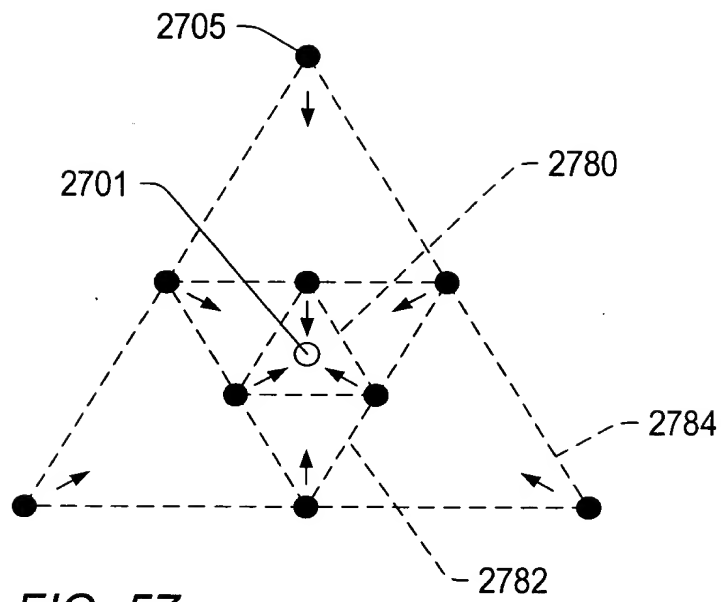


FIG. 57

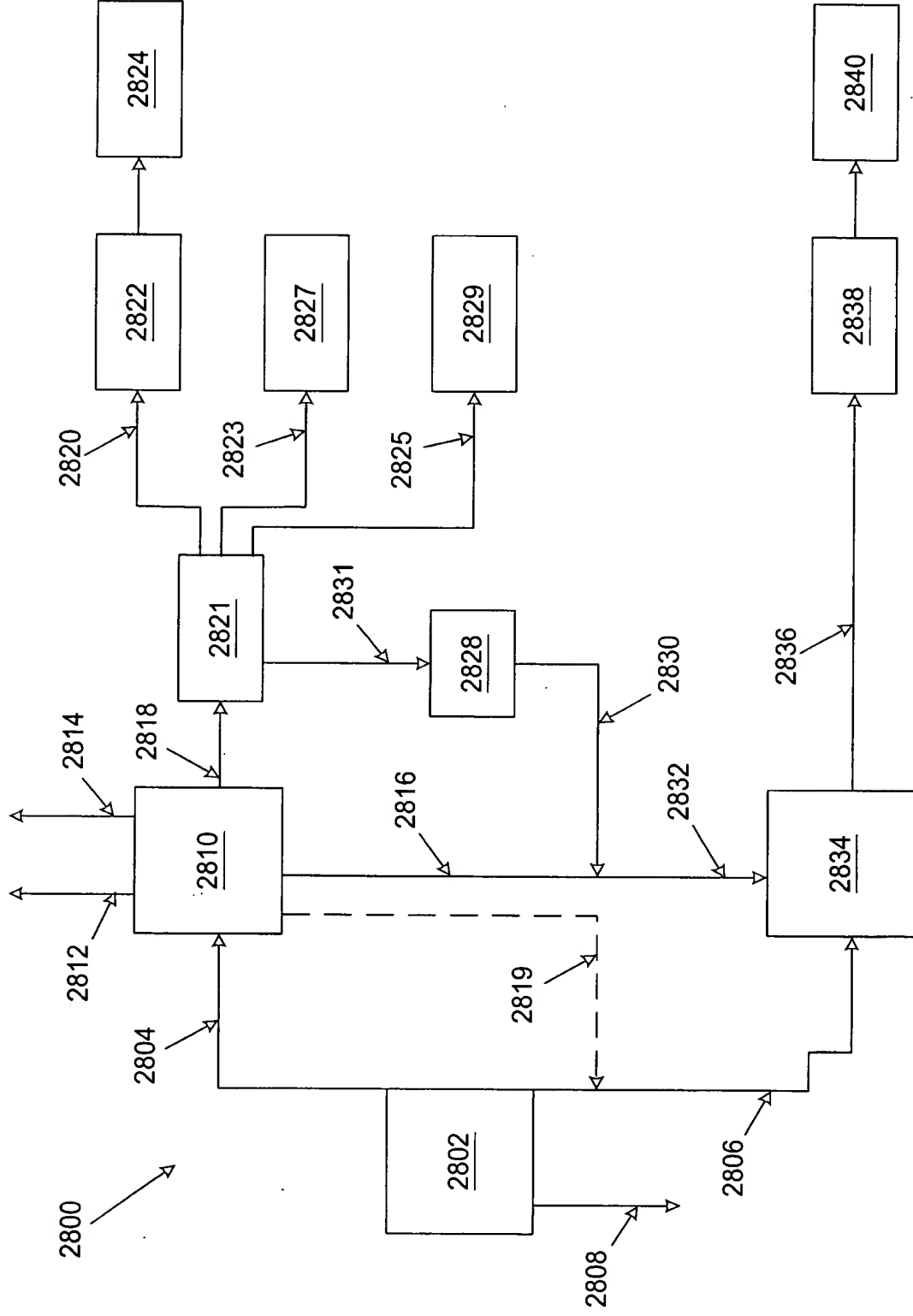


Fig. 58

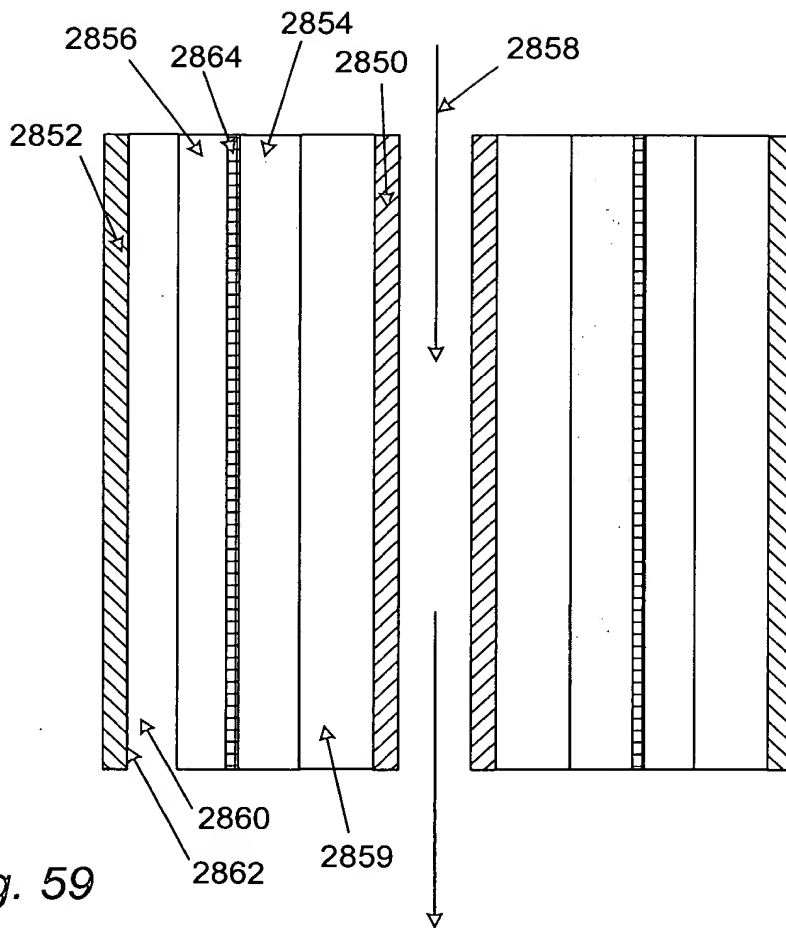


Fig. 59

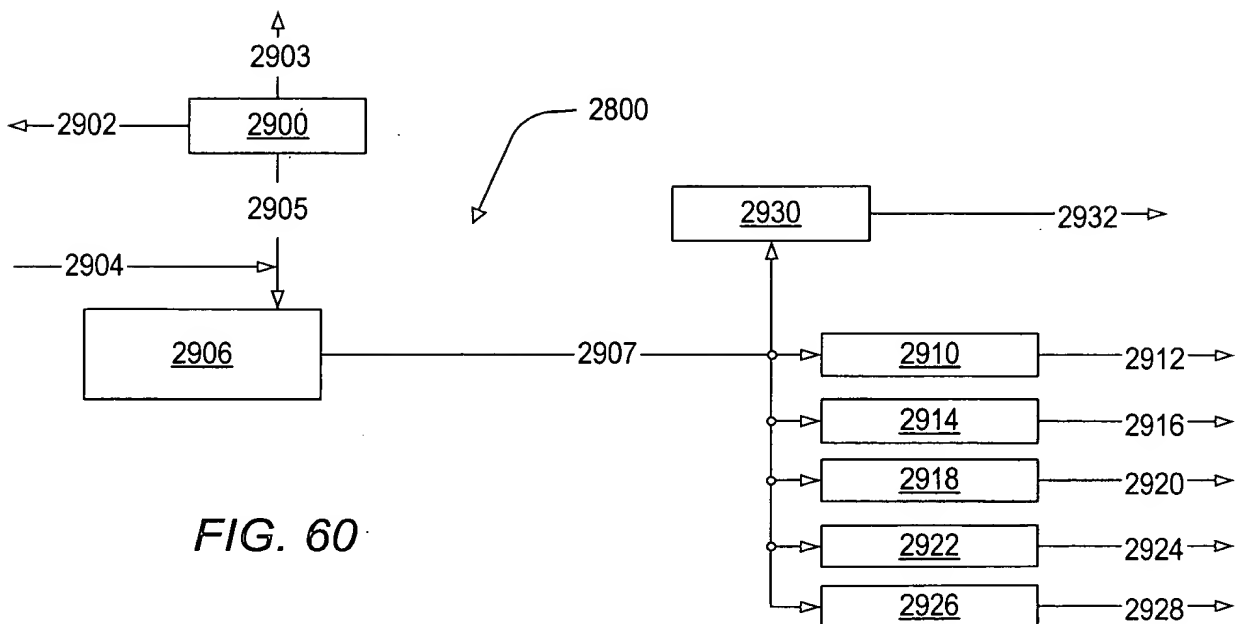


FIG. 60

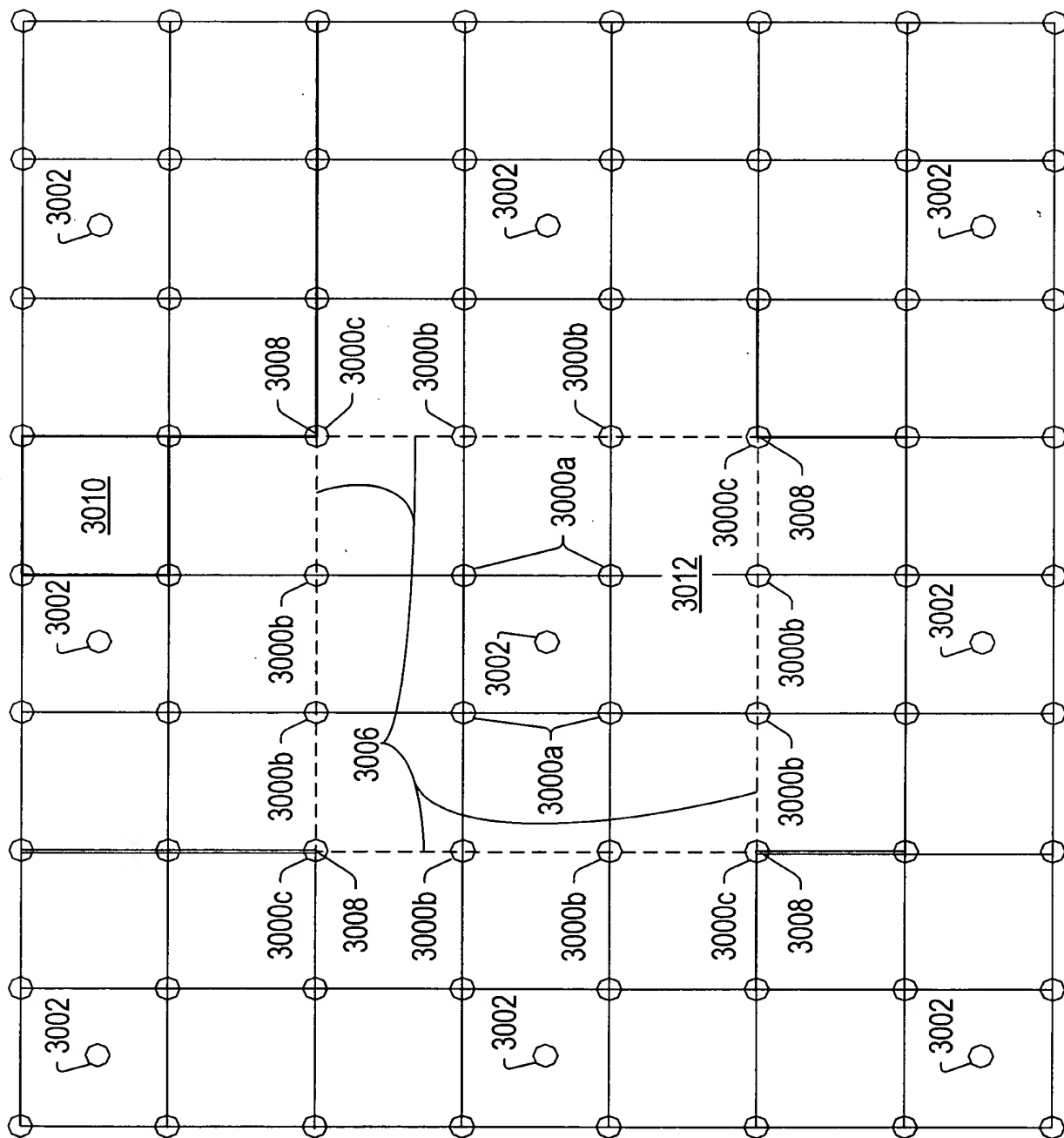


FIG. 61

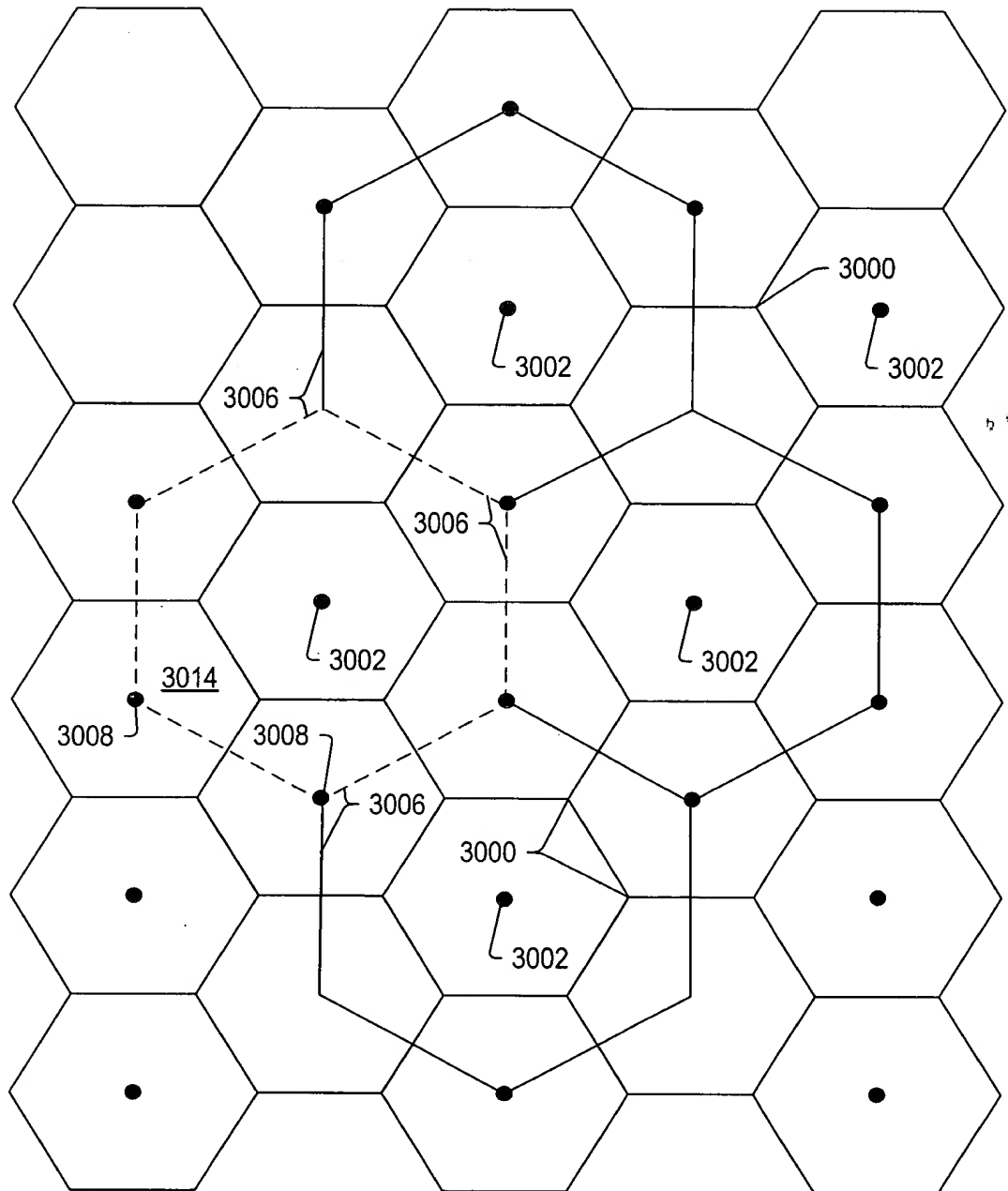


FIG. 62

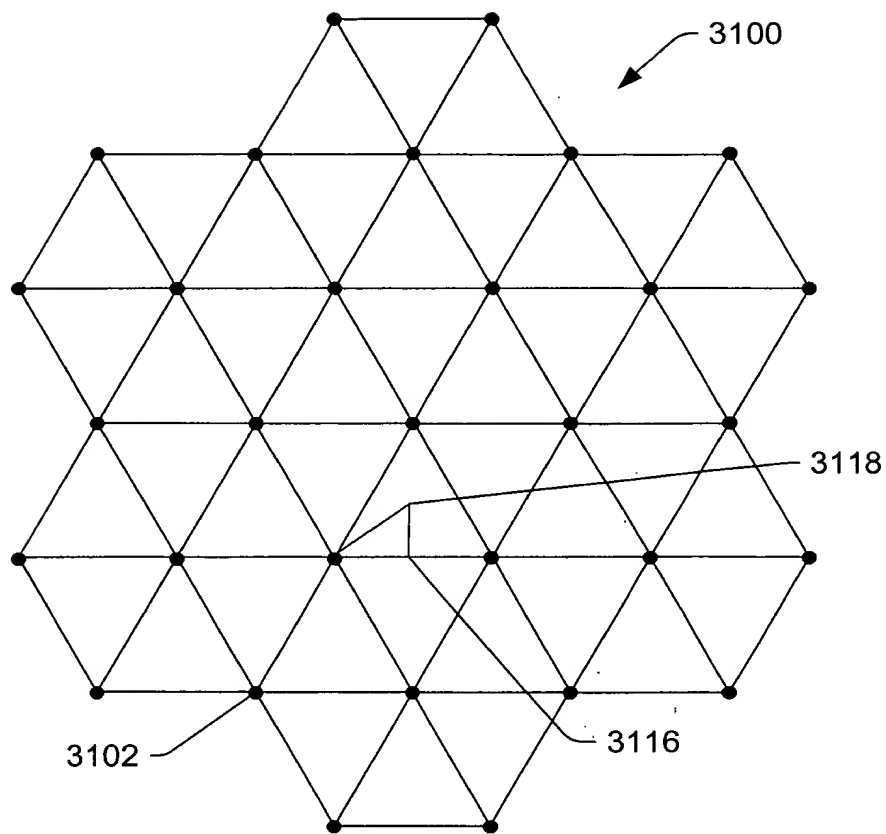


FIG. 63

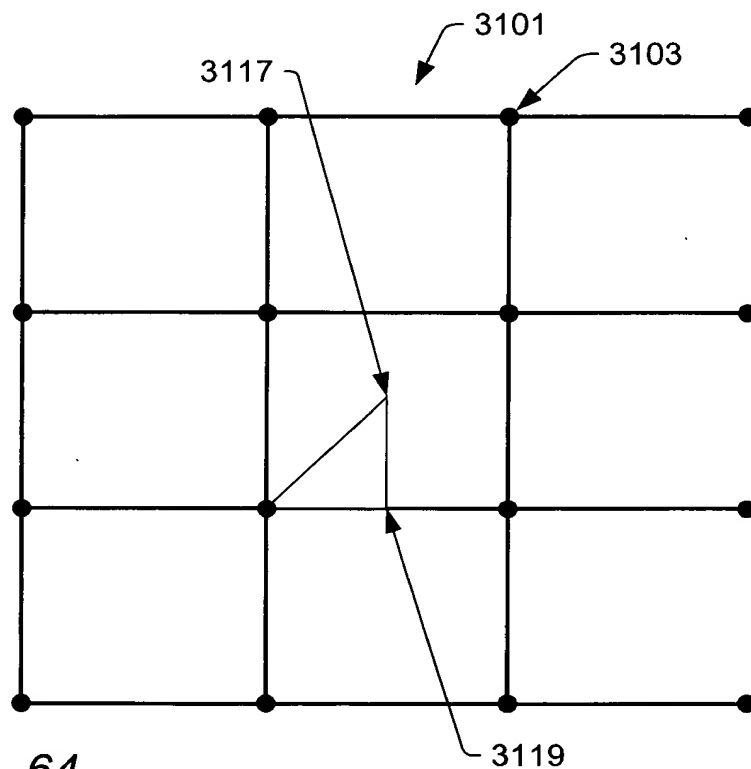


FIG. 64

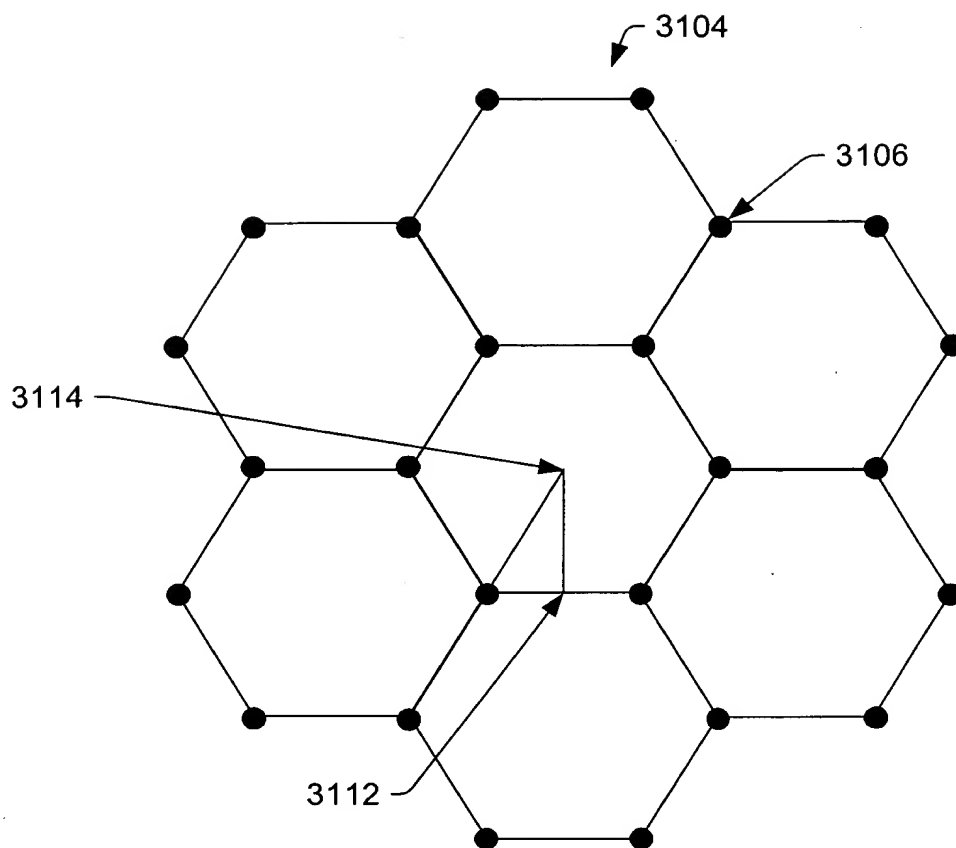


FIG. 65

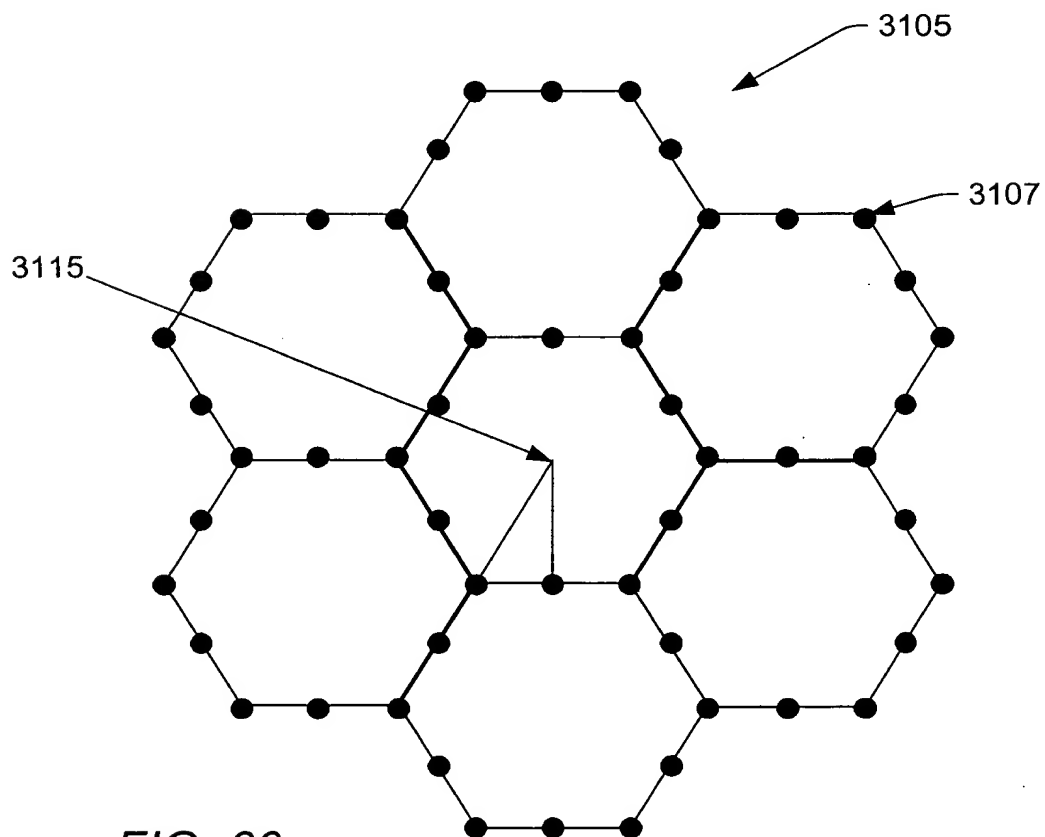


FIG. 66

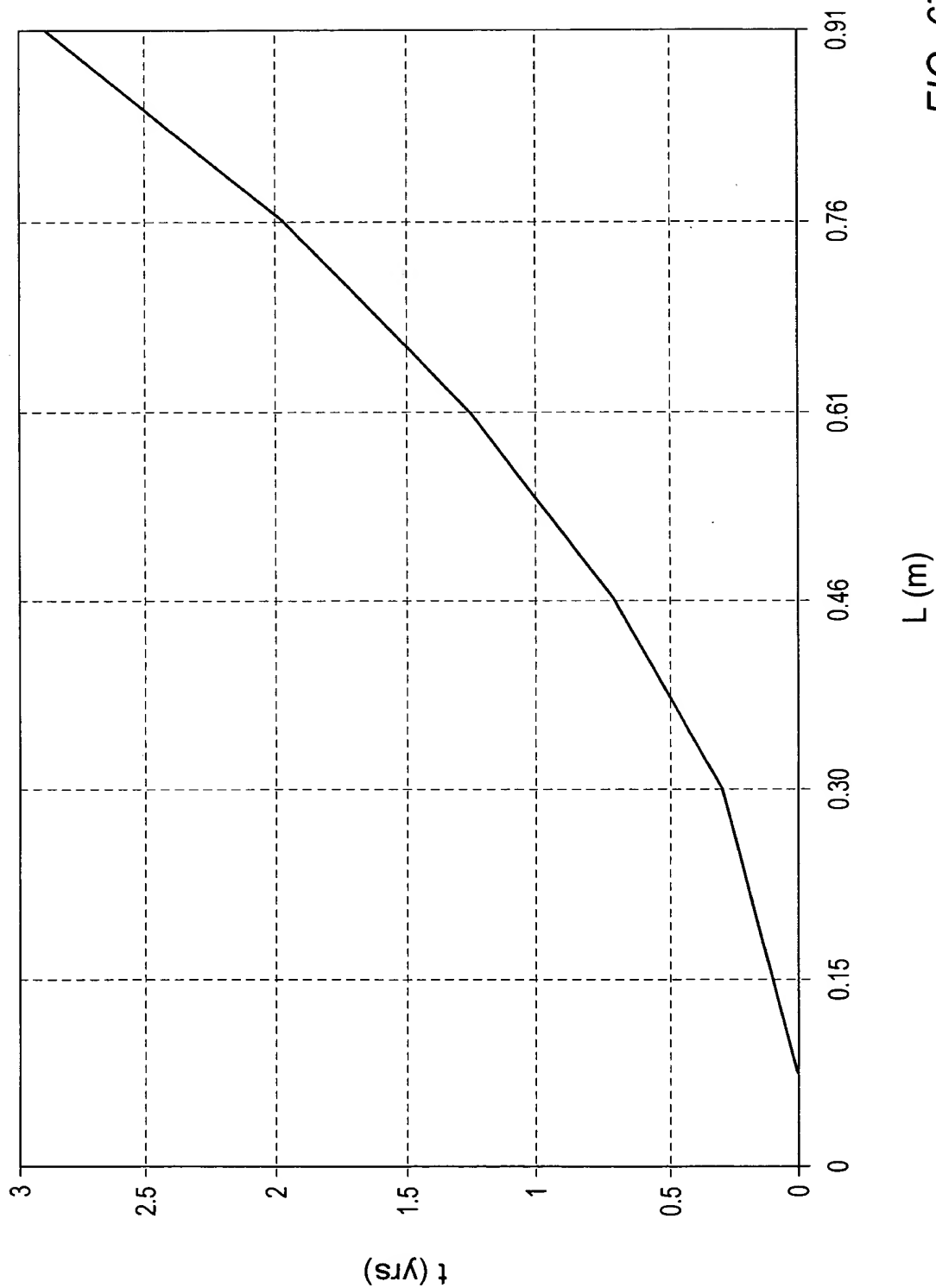


FIG. 67

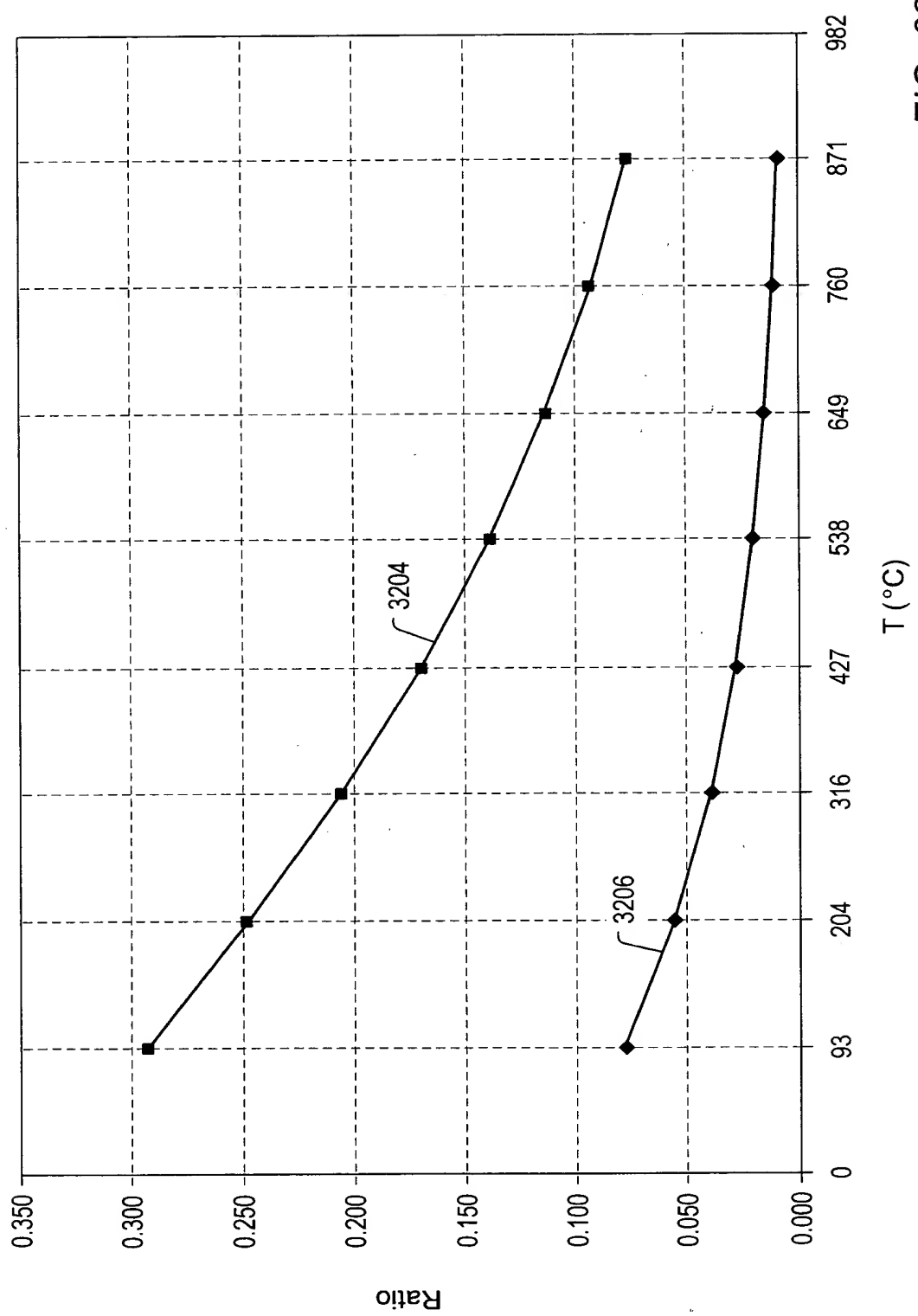


FIG. 68

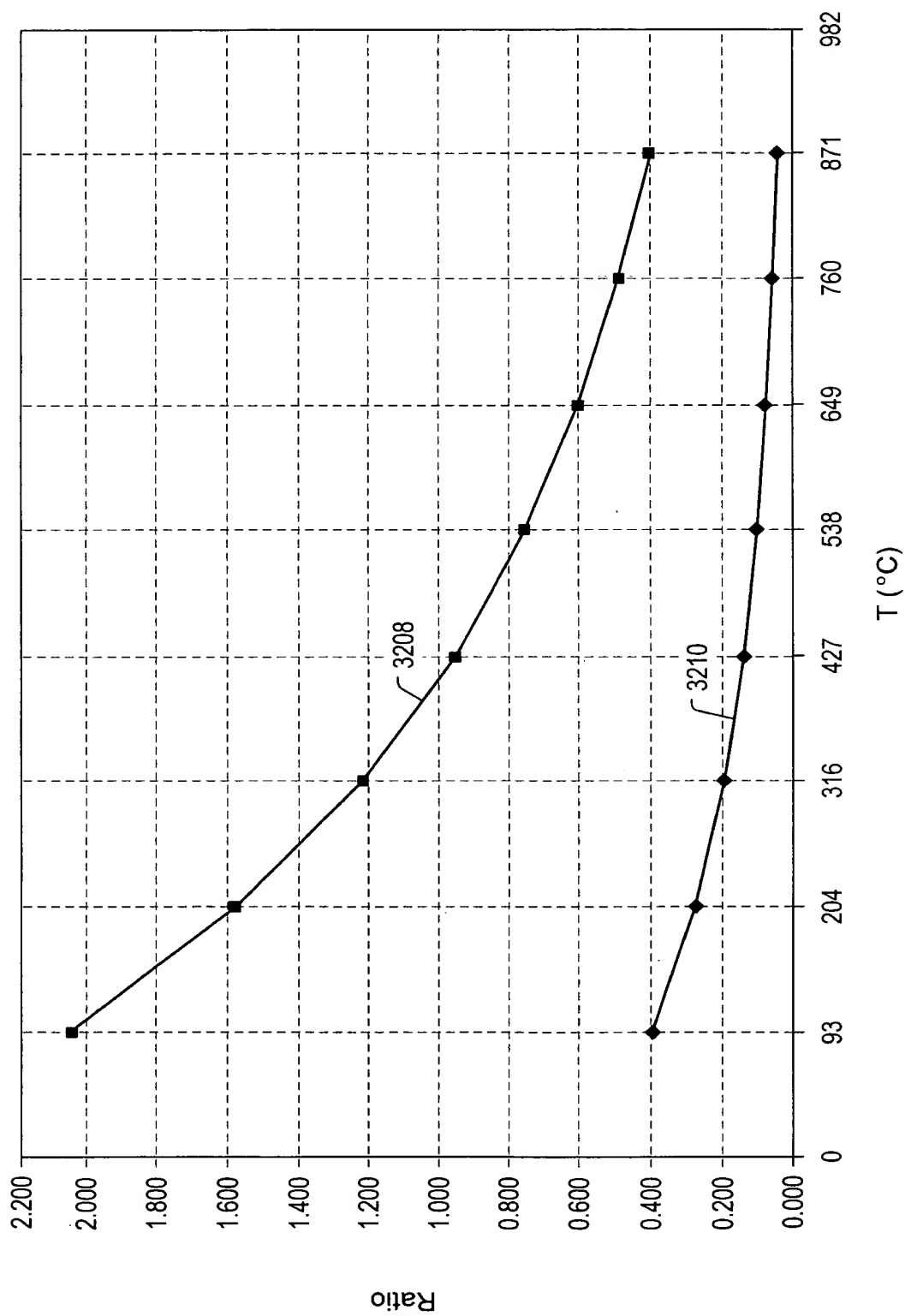


FIG. 69

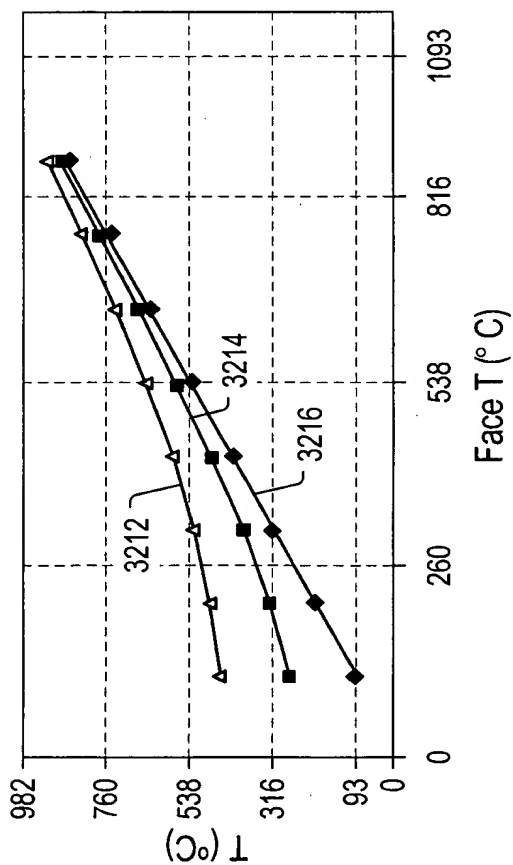


FIG. 70

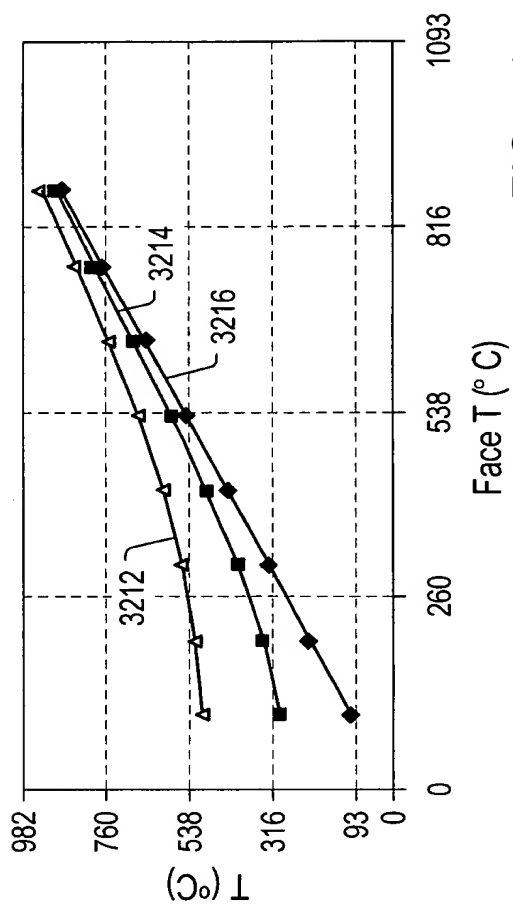


FIG. 71

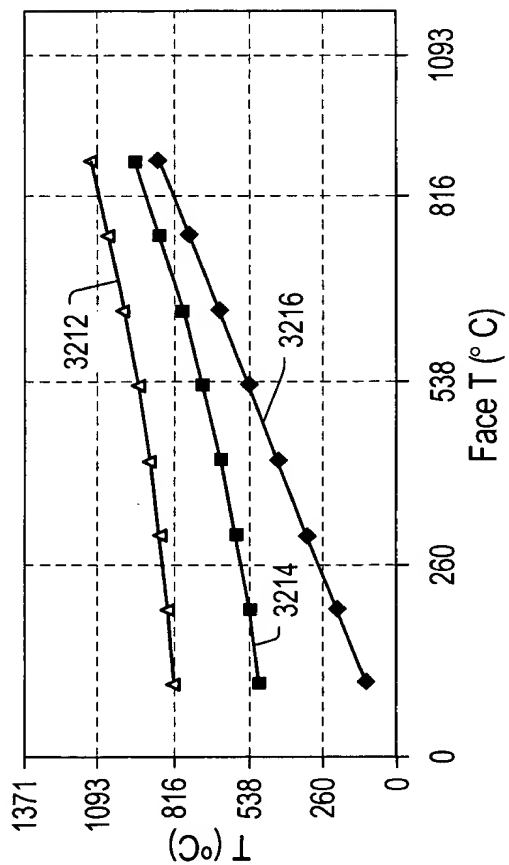


FIG. 72

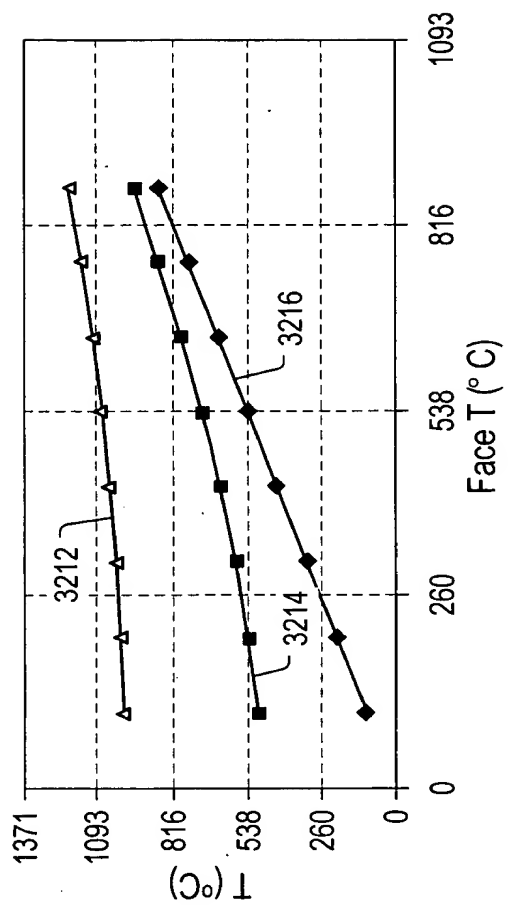


FIG. 73

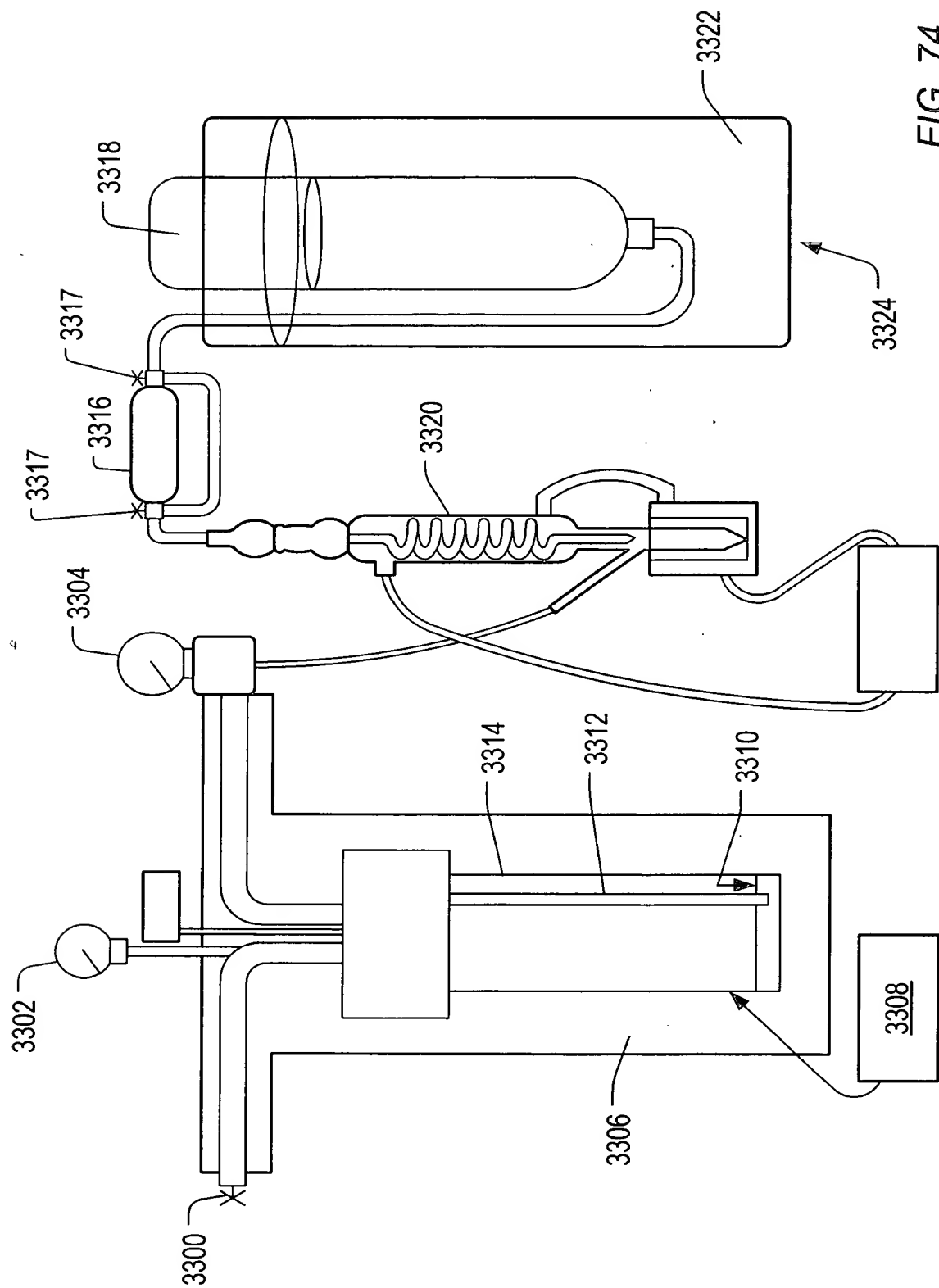


FIG. 74

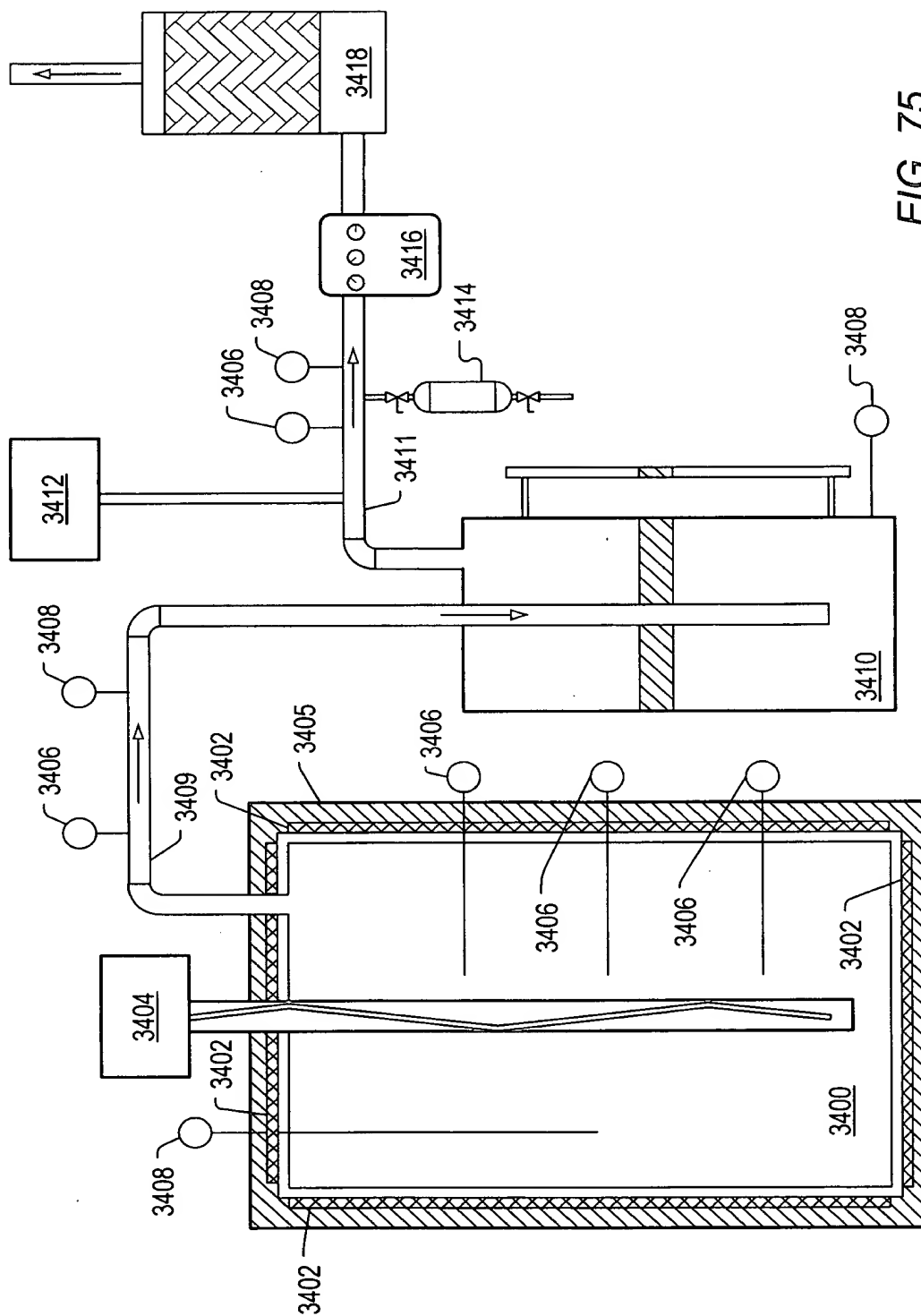


FIG. 75

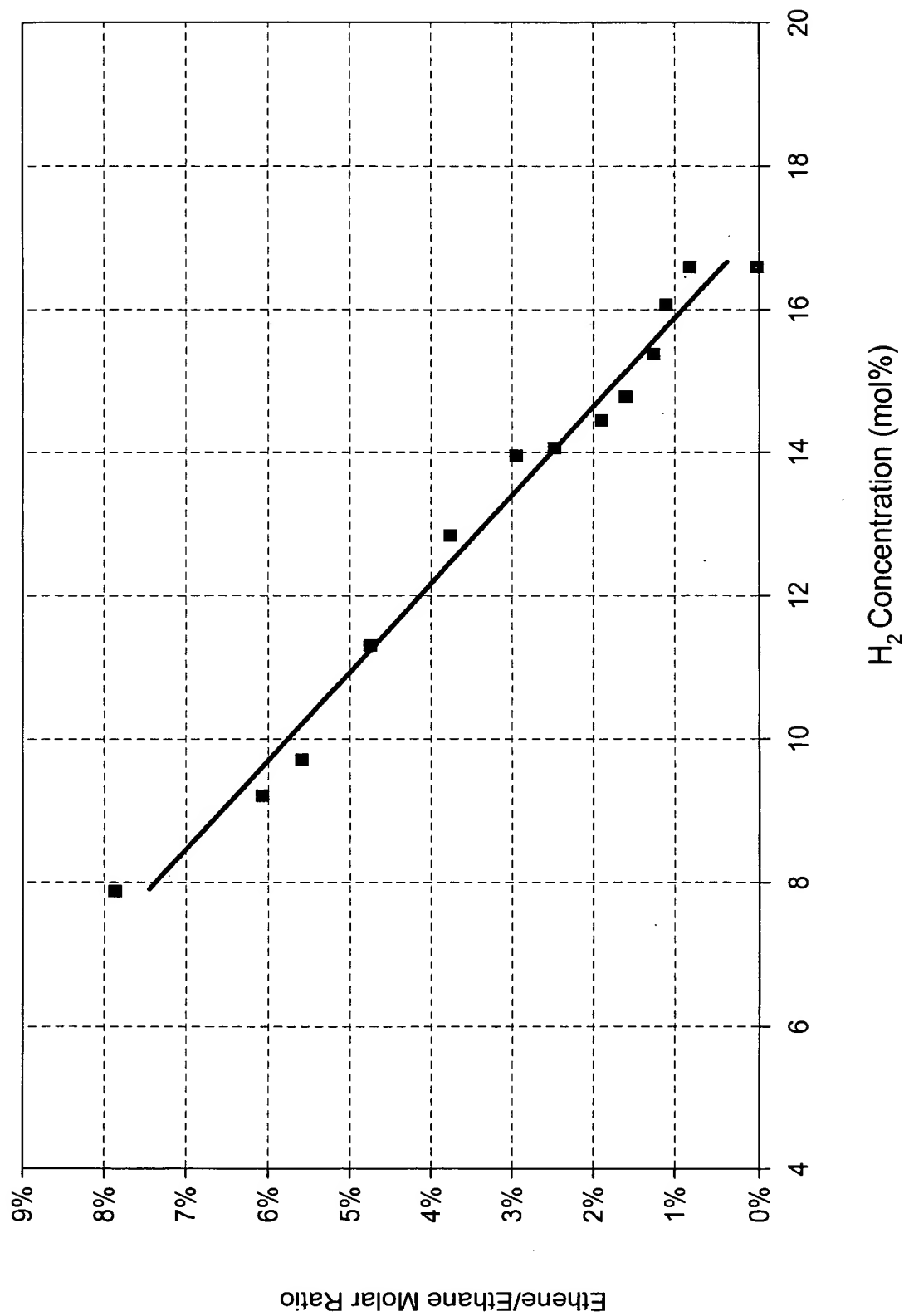


FIG. 76

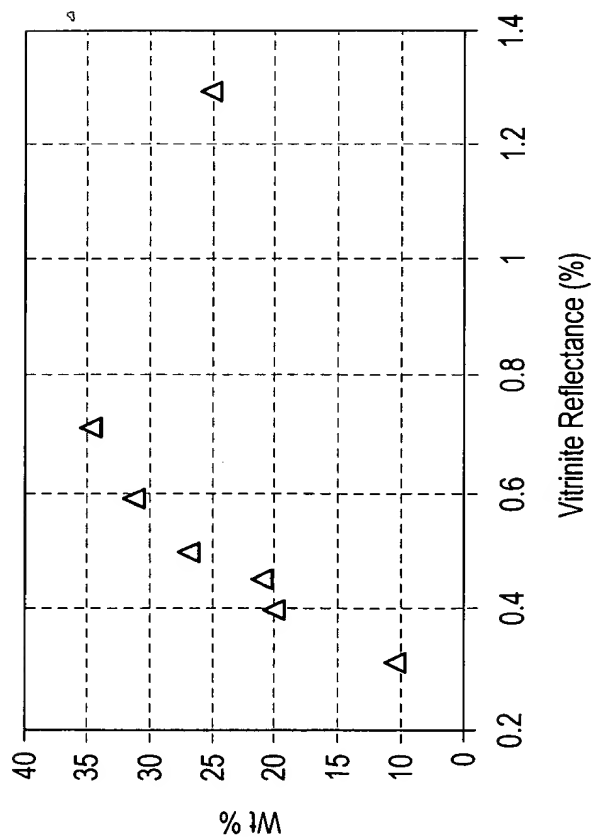


FIG. 77

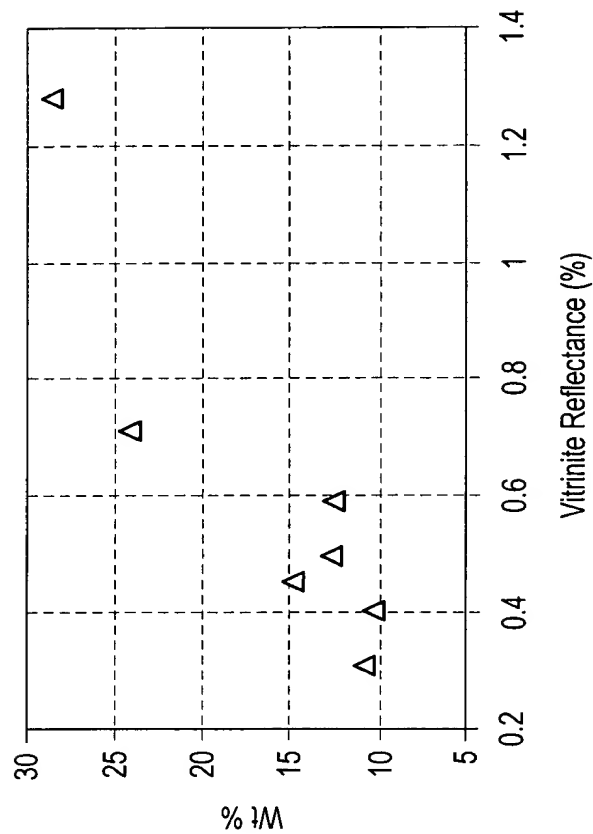


FIG. 78

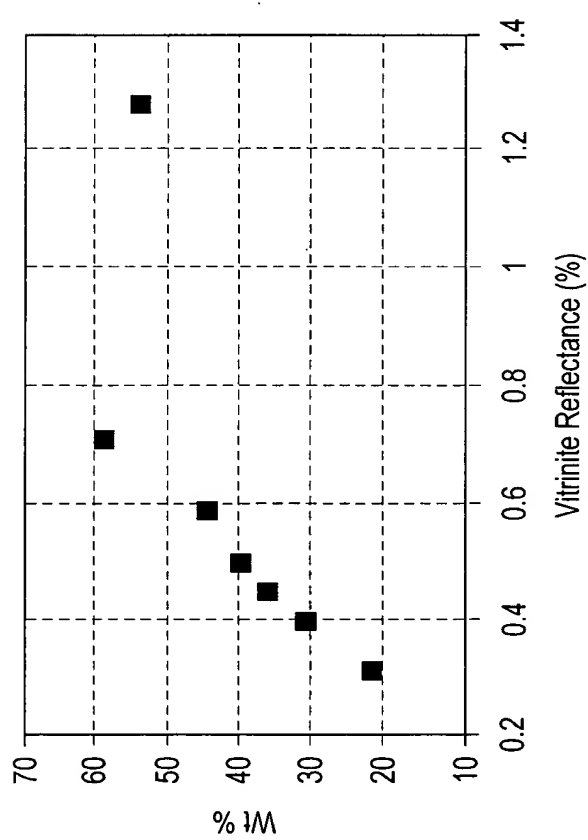


FIG. 79

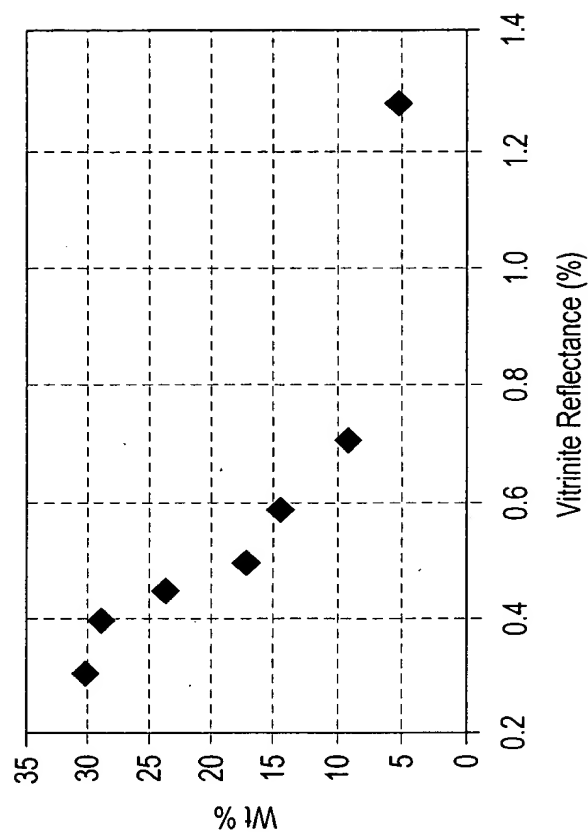


FIG. 80

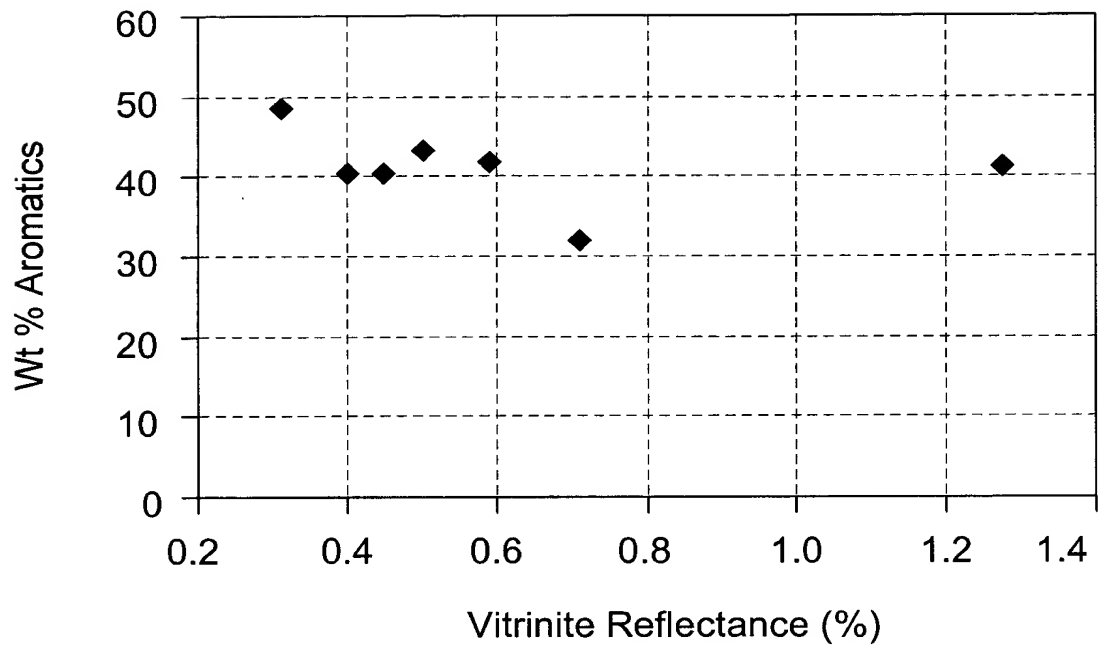


FIG. 81

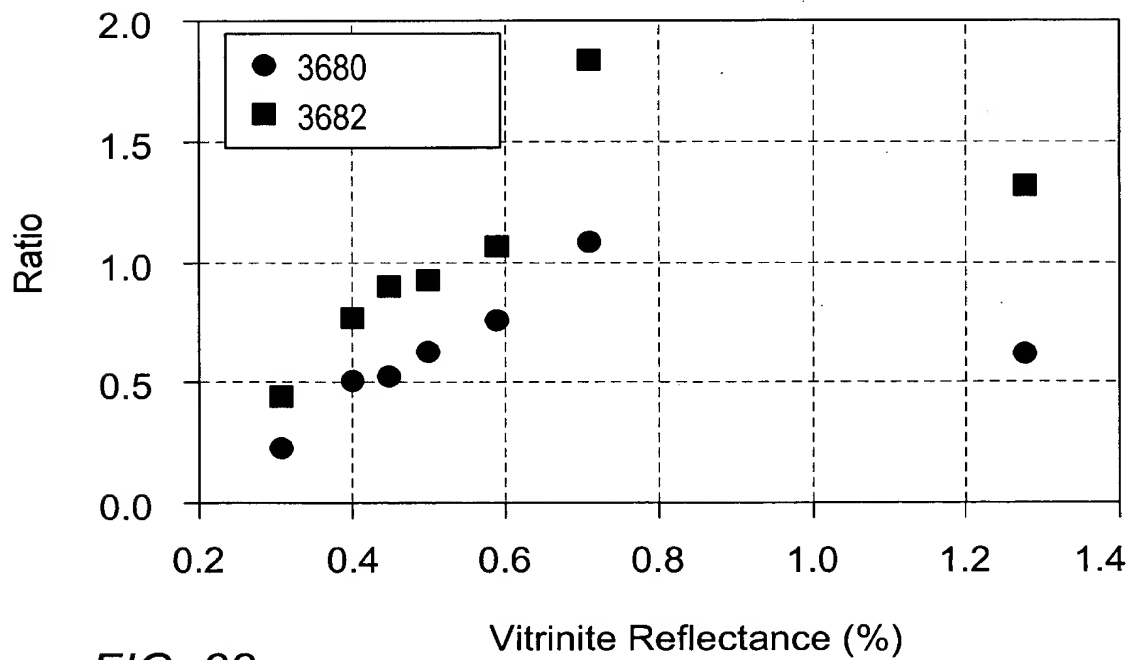


FIG. 82

Figure 83, 84, 85, and 86 show the relationship between vitrinite reflectance and the concentration of various organic compounds in a coal sample. The x-axis for all four graphs is Vitrinite Reflectance (%), ranging from 0.2 to 1.4. The y-axis for all four graphs is concentration in m^3/kg .

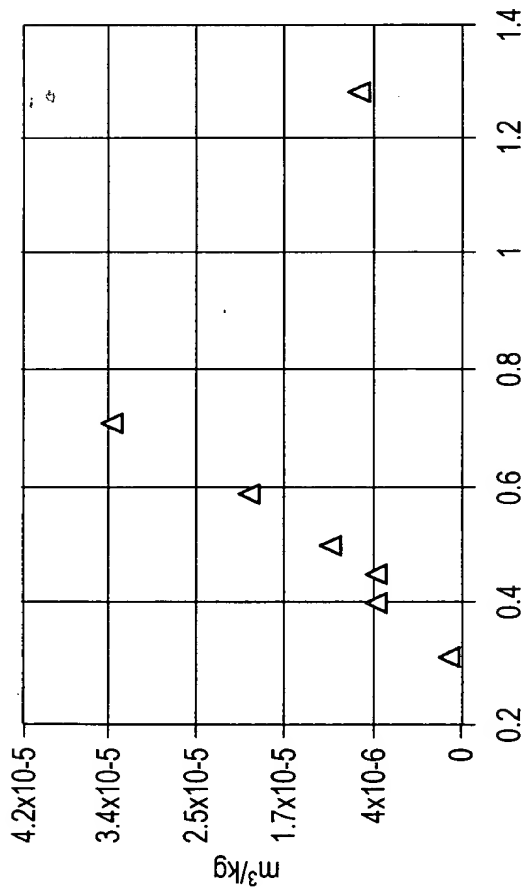


FIG. 83

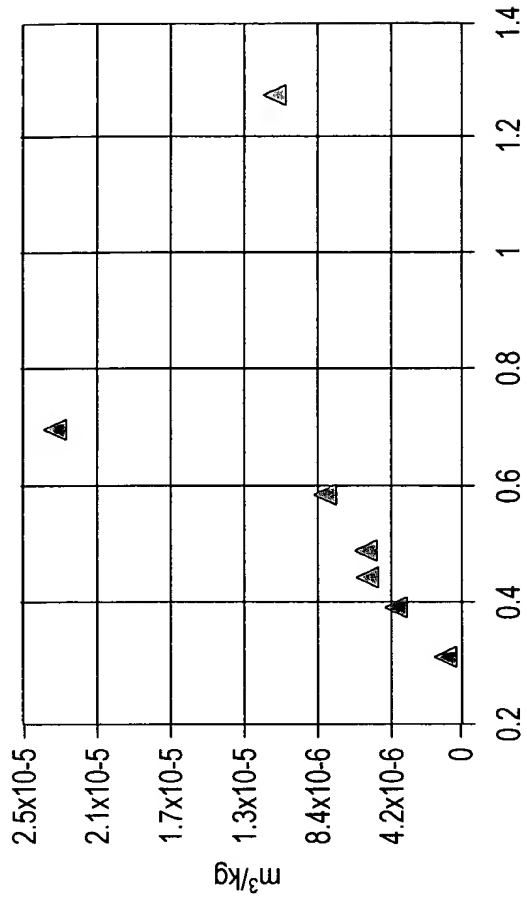


FIG. 84

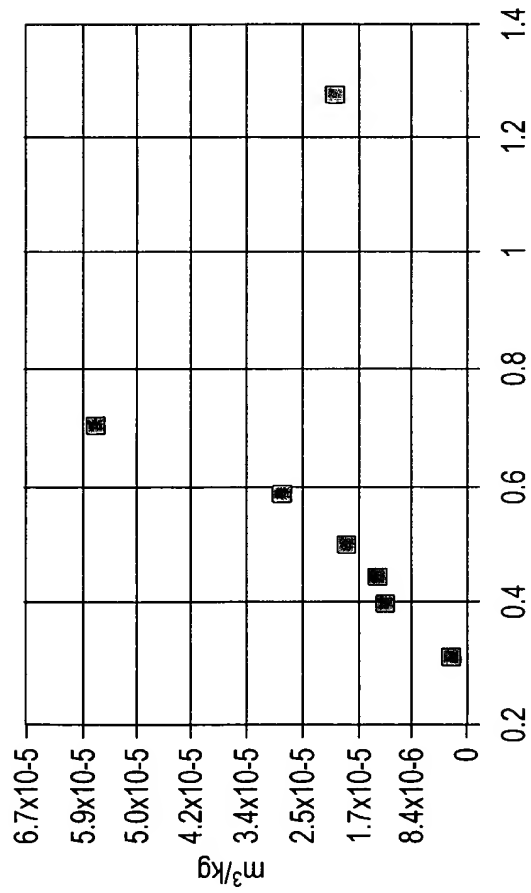


FIG. 85

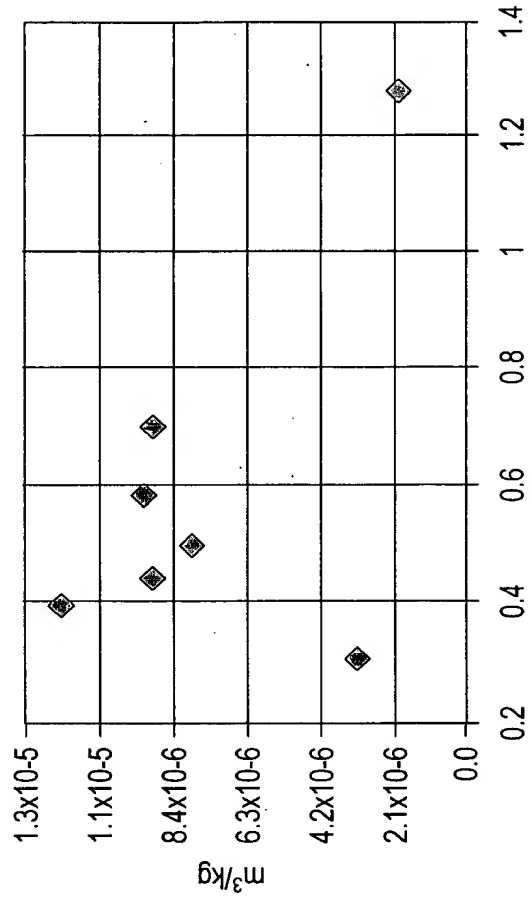


FIG. 86

4

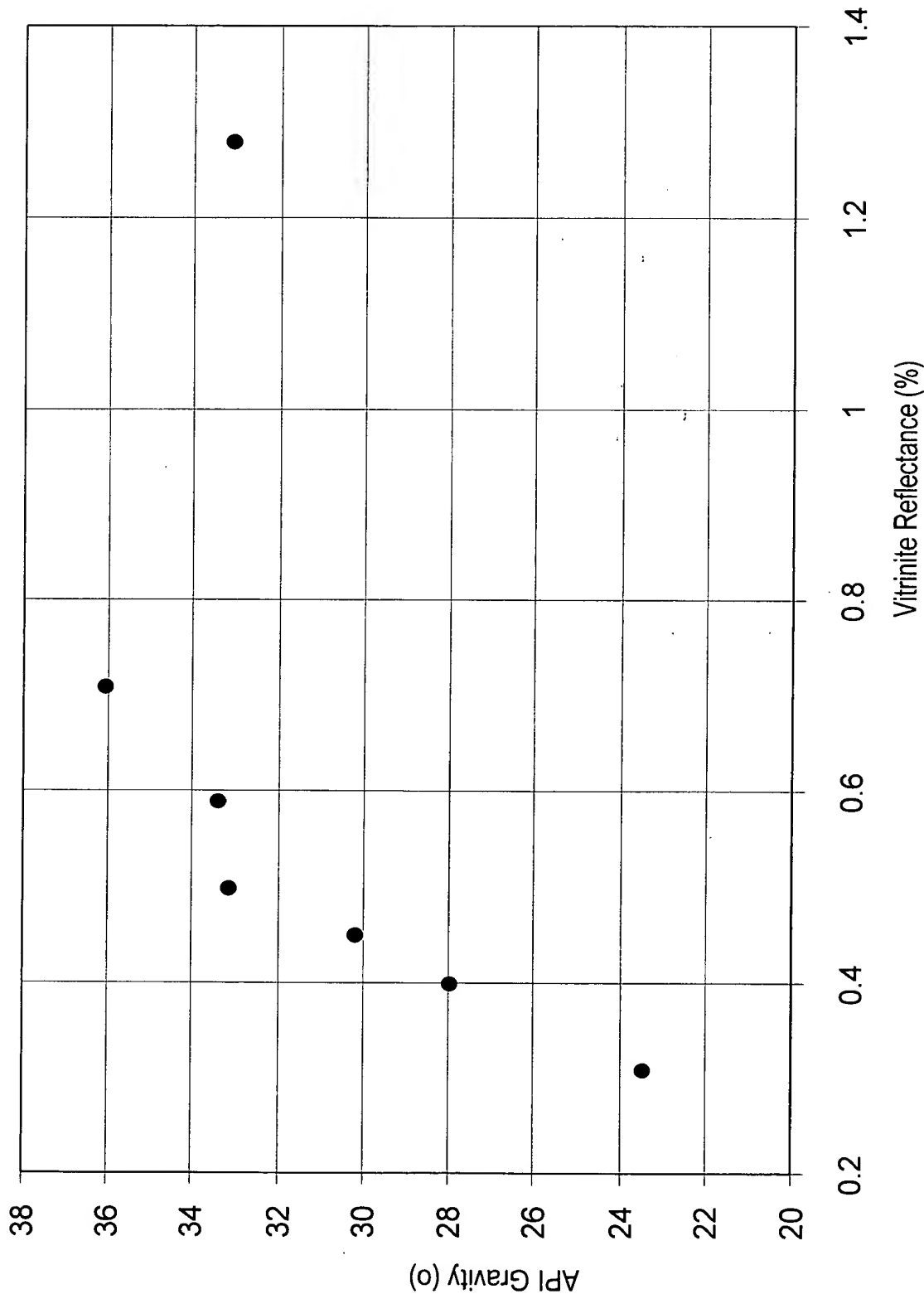
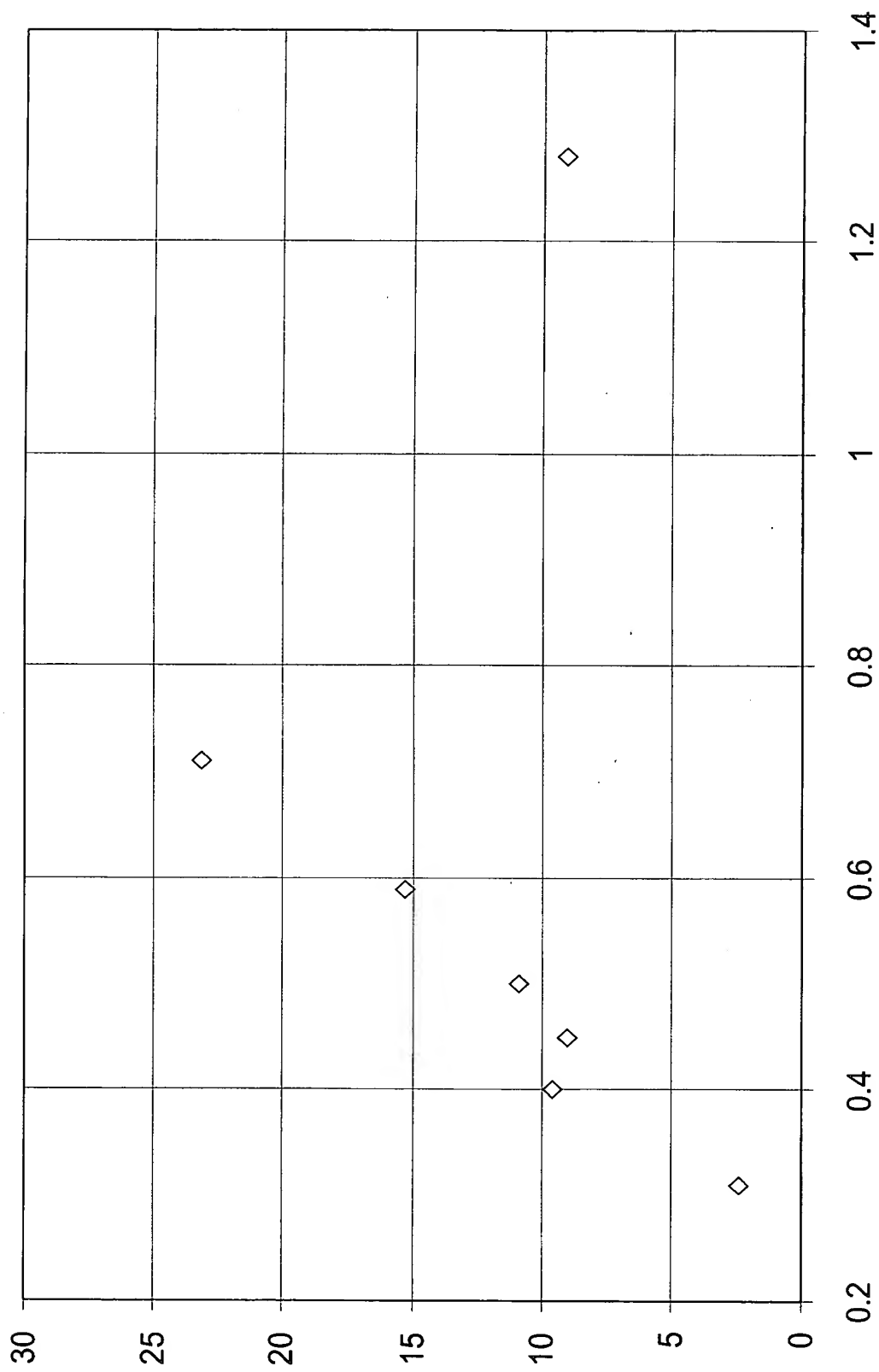


FIG. 87

0.3562



Vitrinite Reflectance (%)

FIG. 88

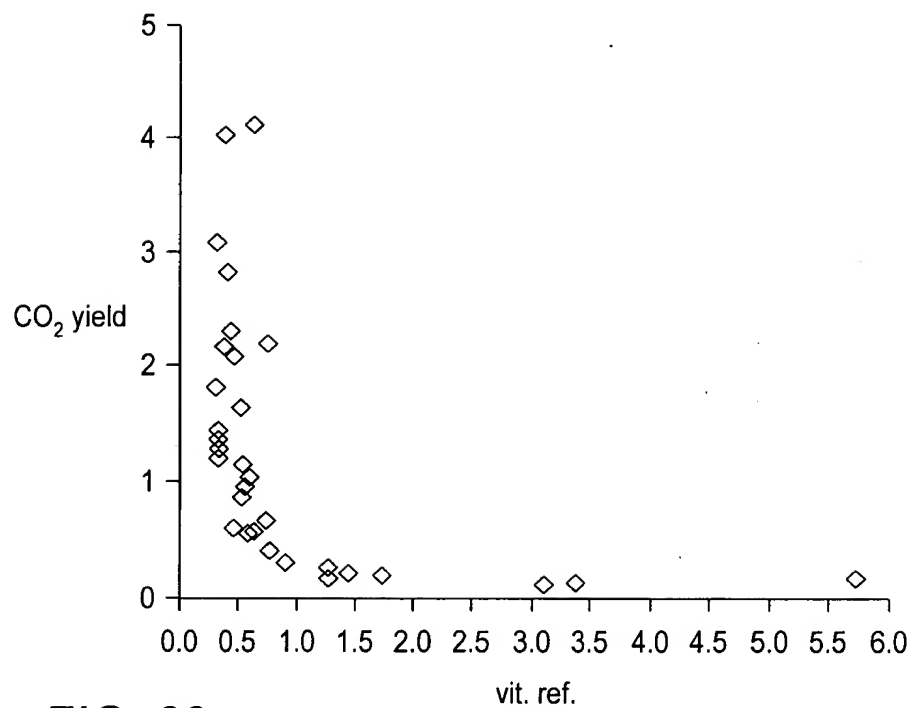


FIG. 89

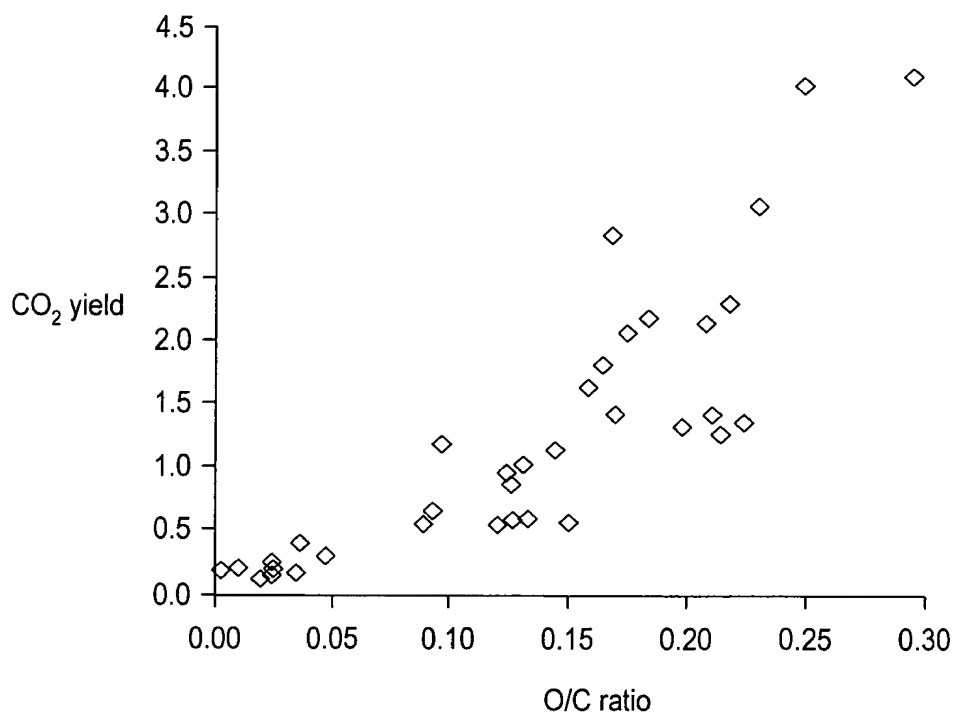
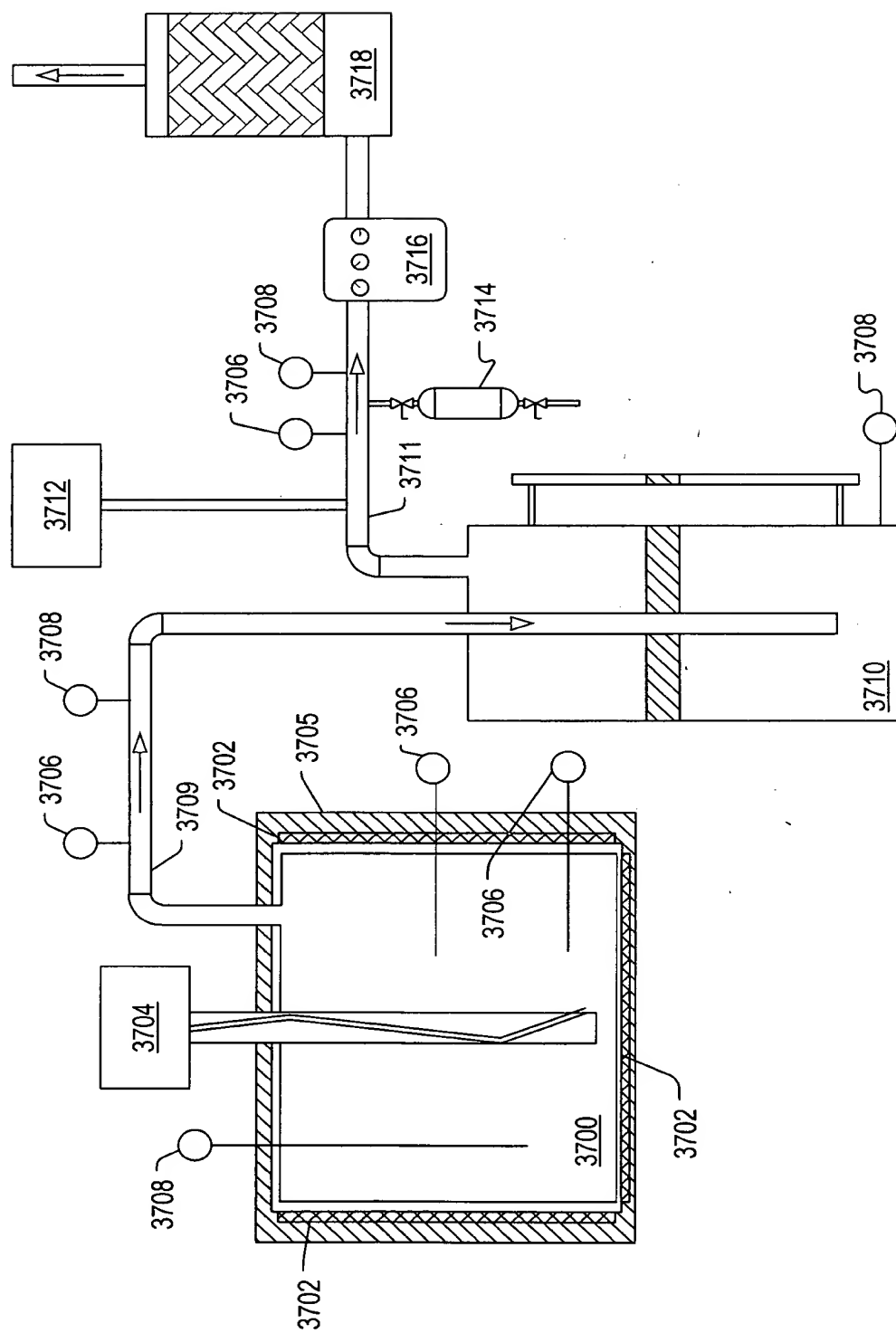


FIG. 90



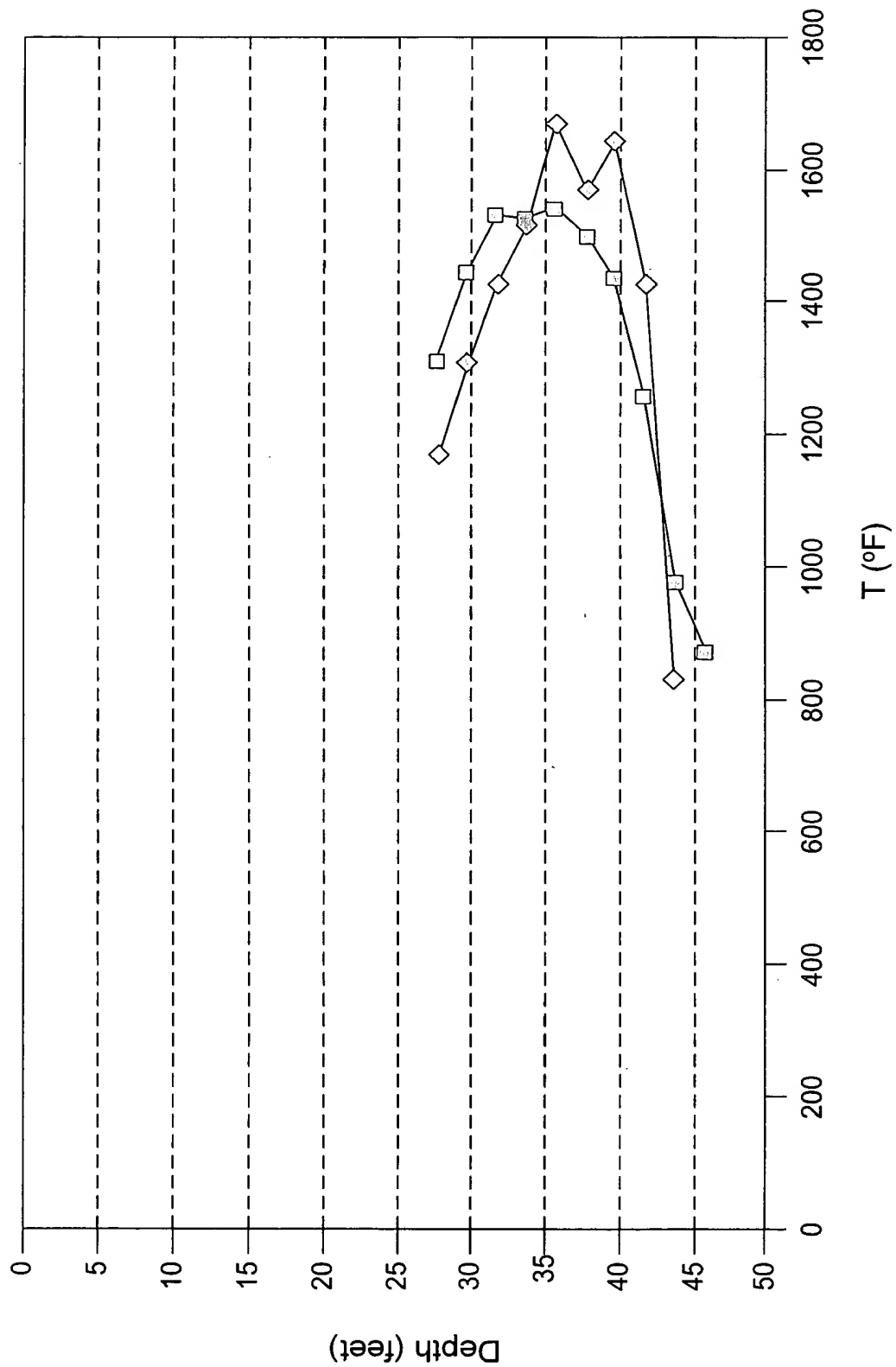


FIG. 92

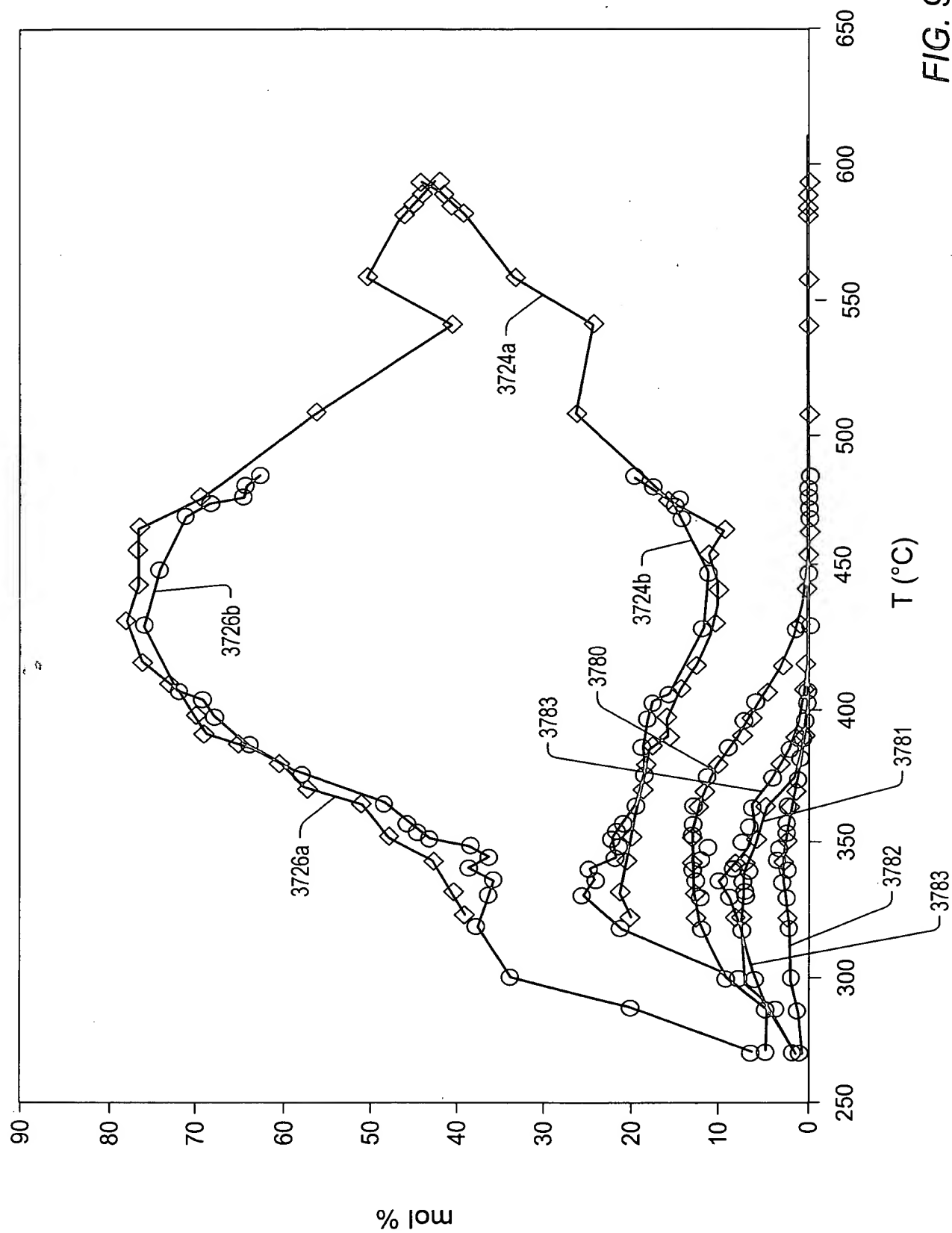


FIG. 93

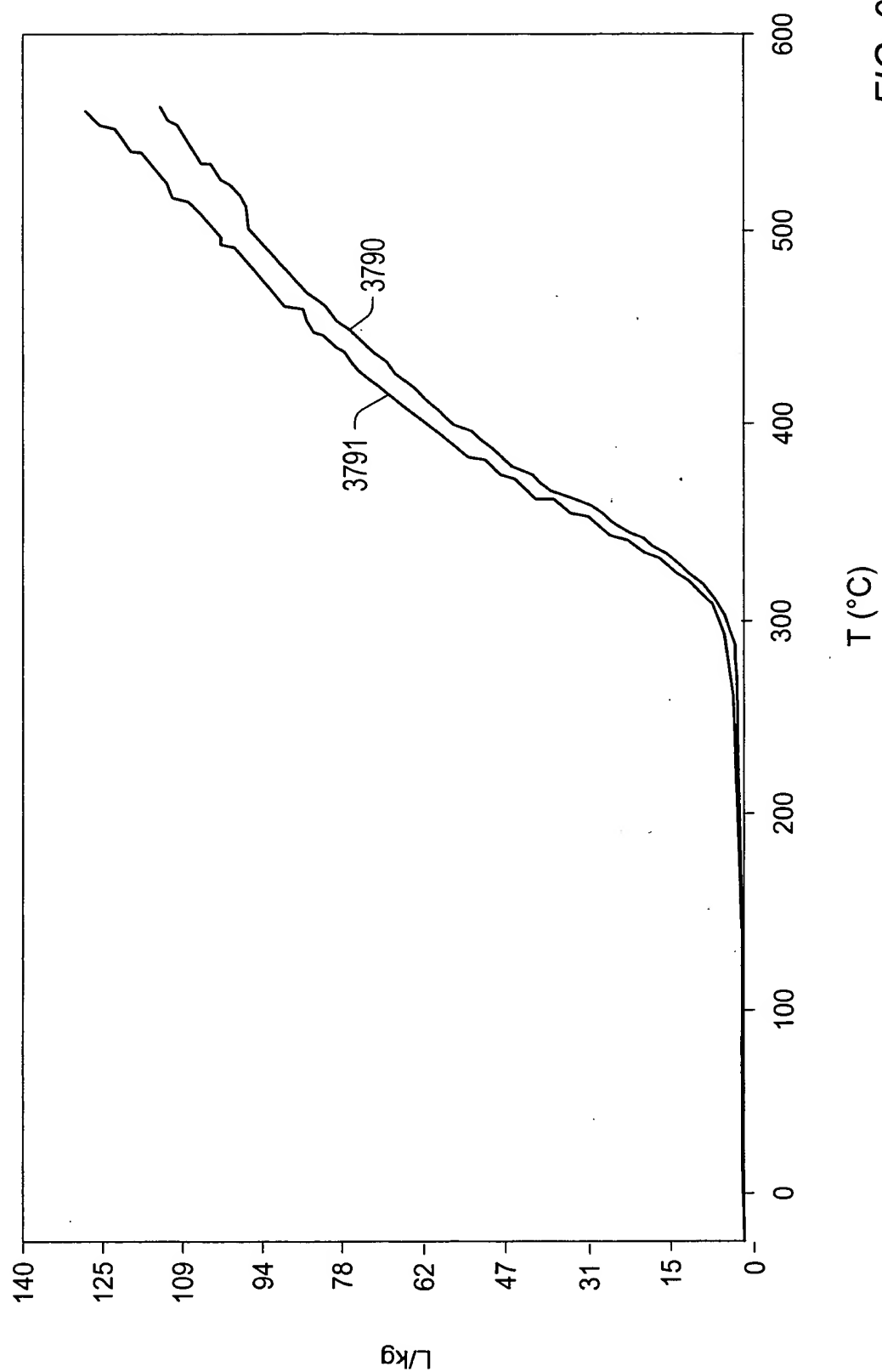


FIG. 94

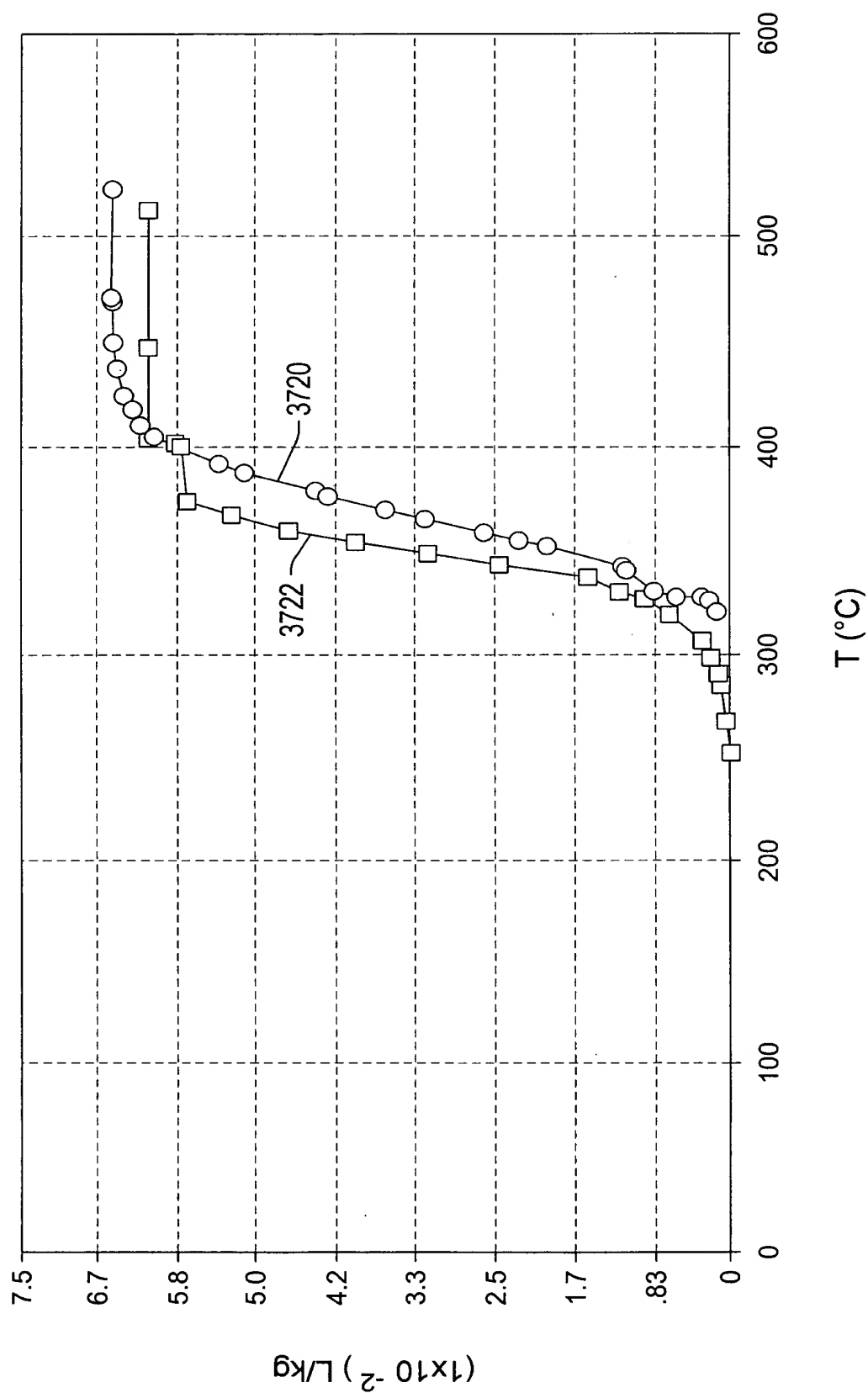


FIG. 95

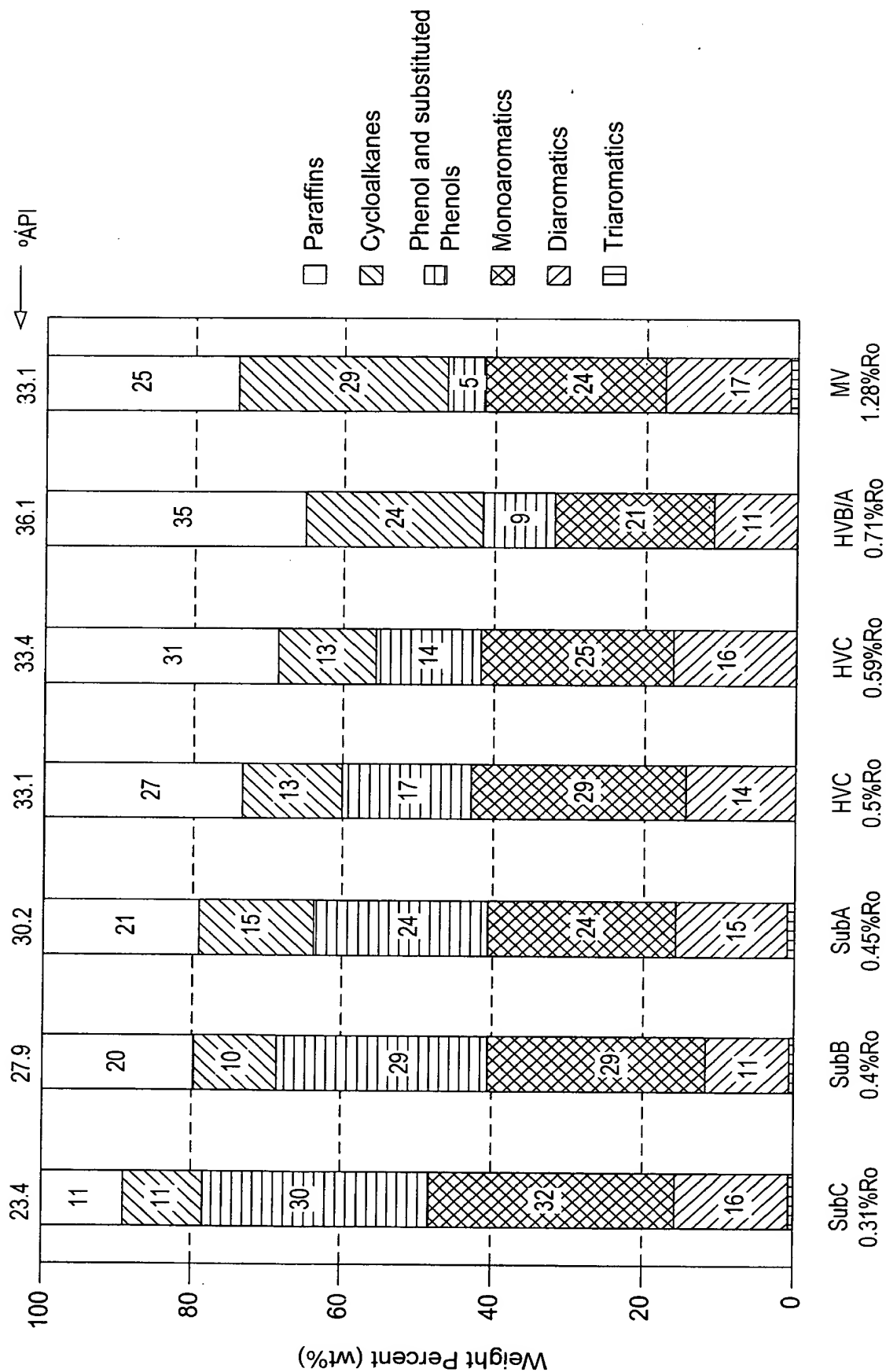


FIG. 96

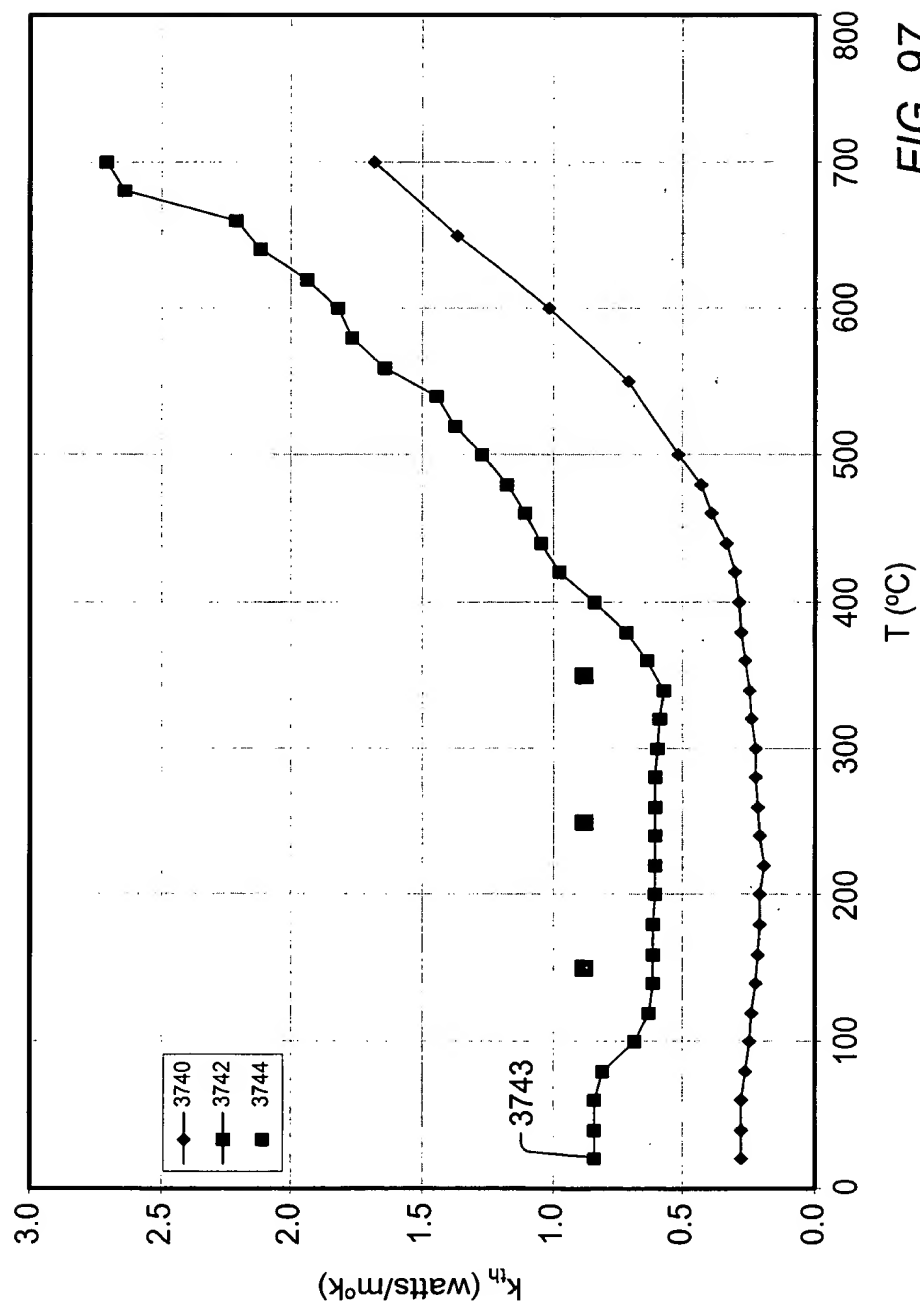


FIG. 97

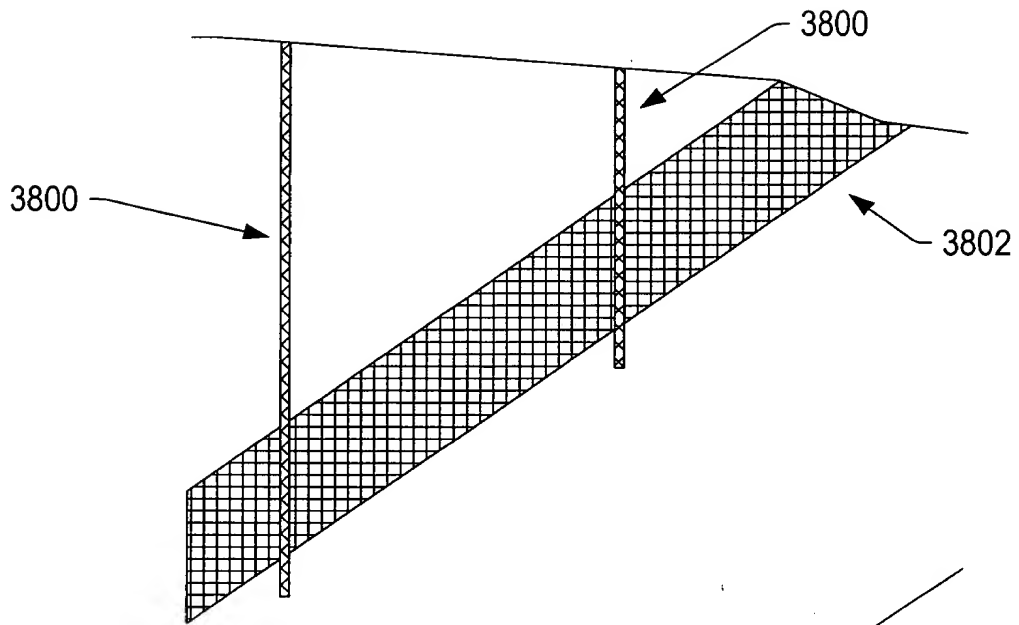


FIG. 98

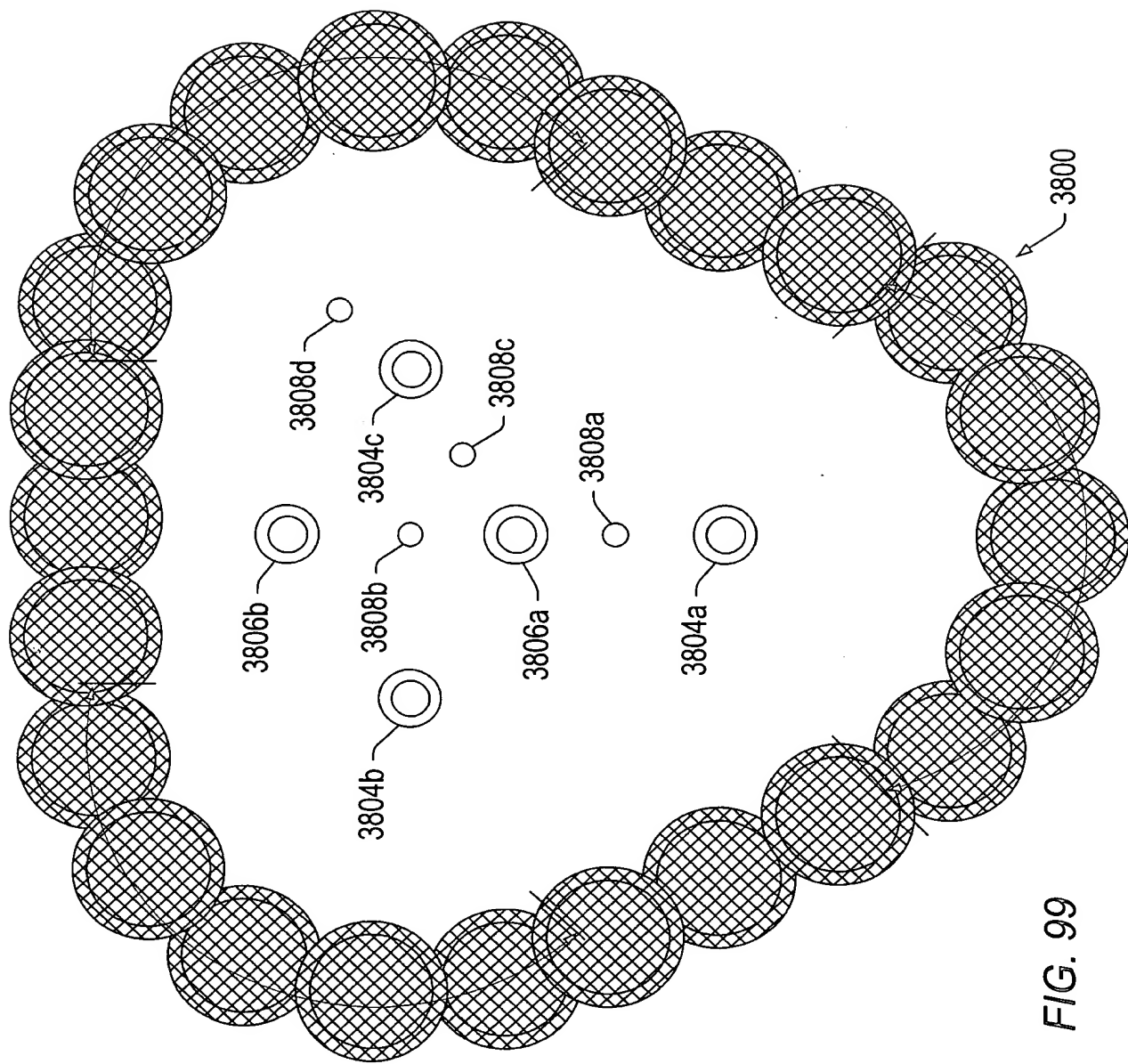


FIG. 99

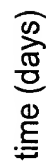


FIG. 100

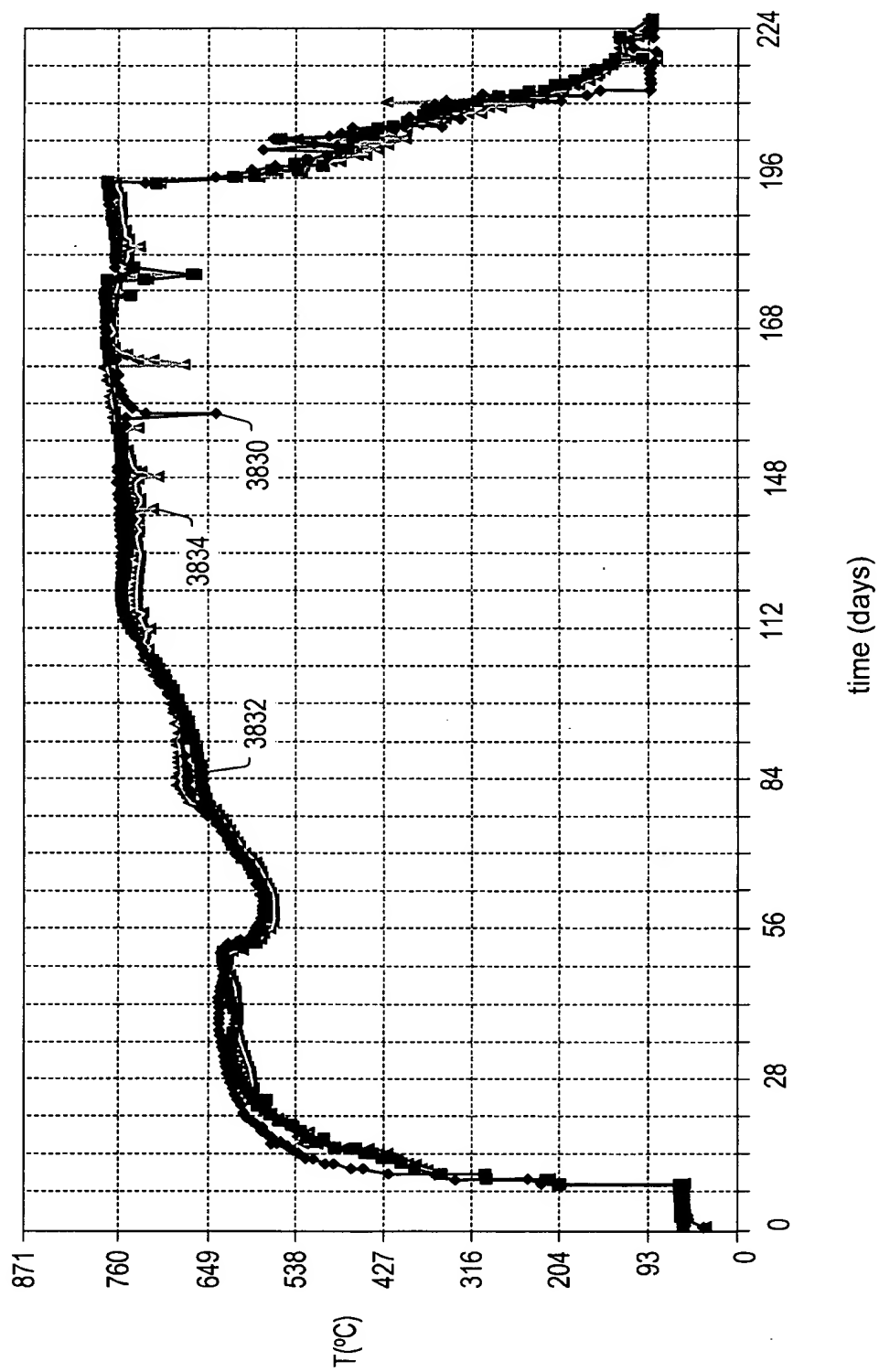


FIG. 101

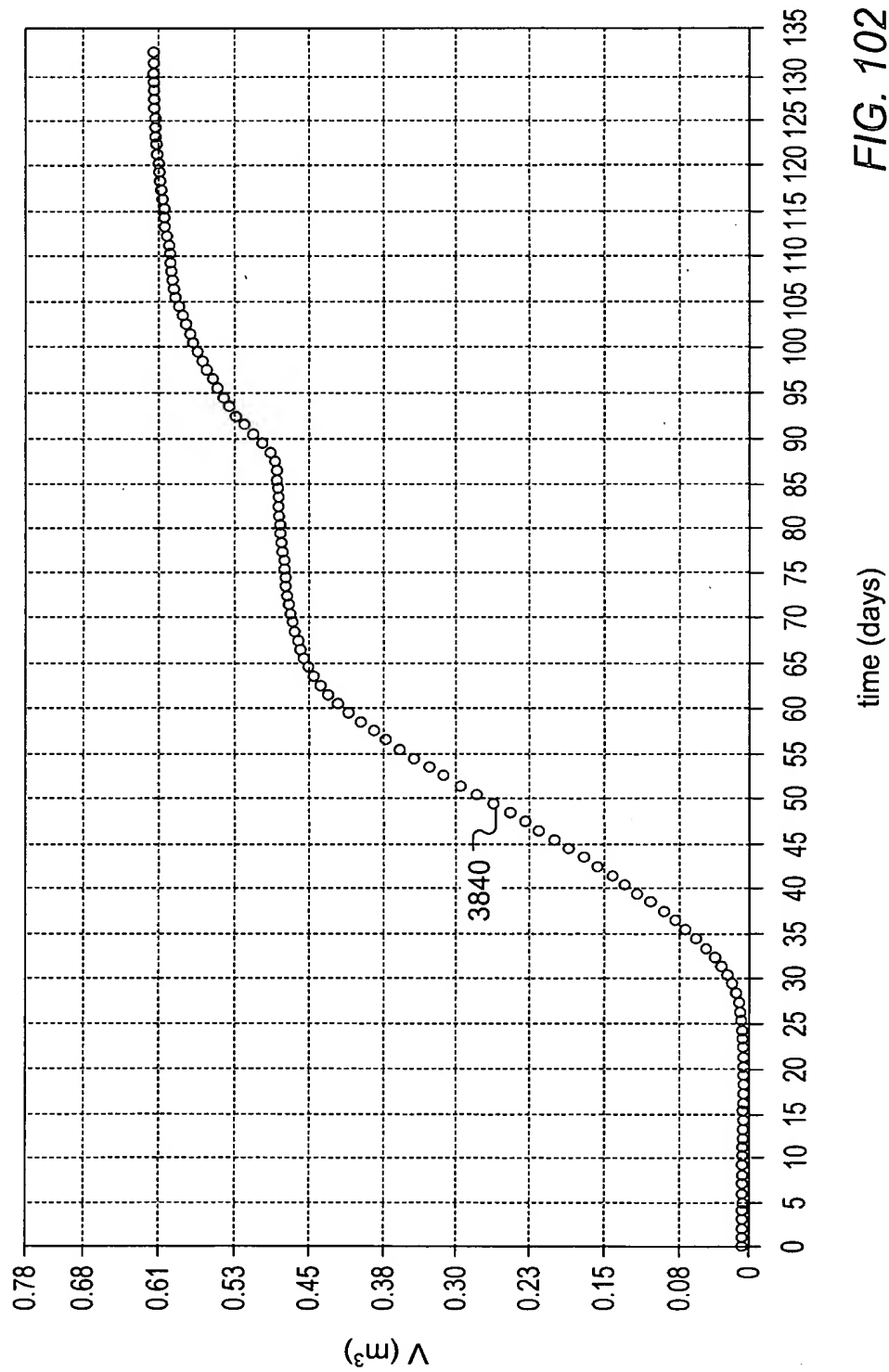


FIG. 102

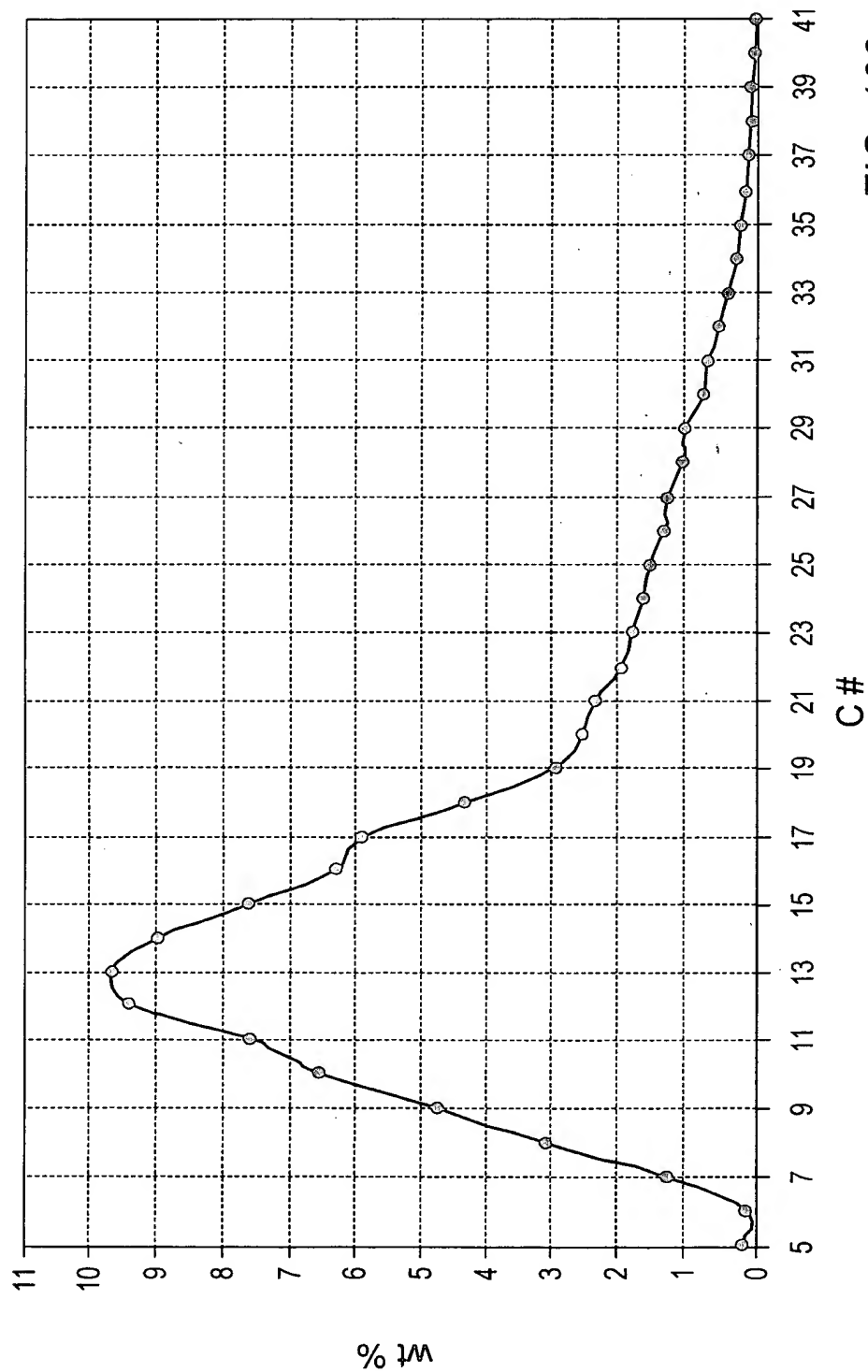


FIG. 103

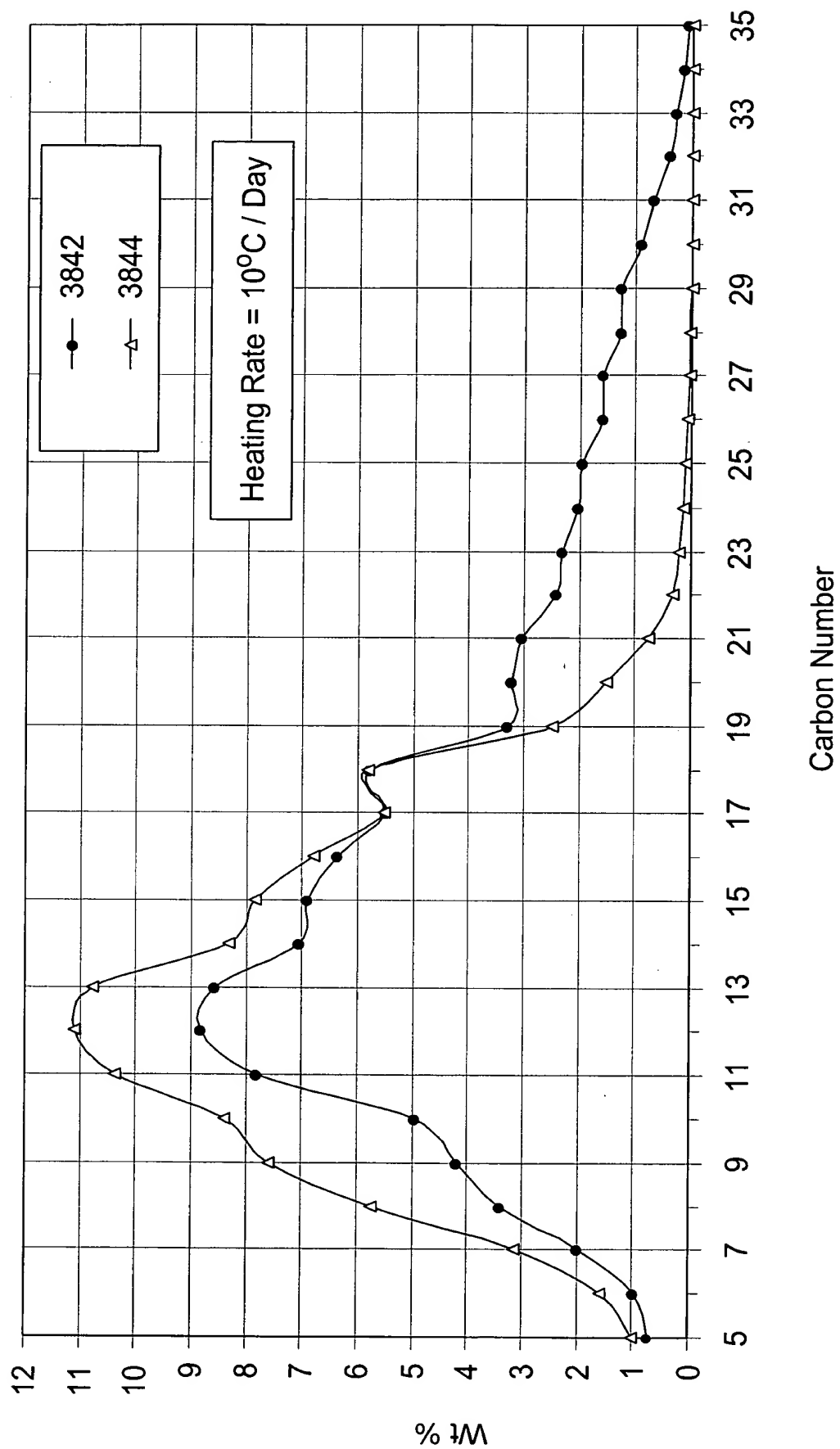


FIG. 104

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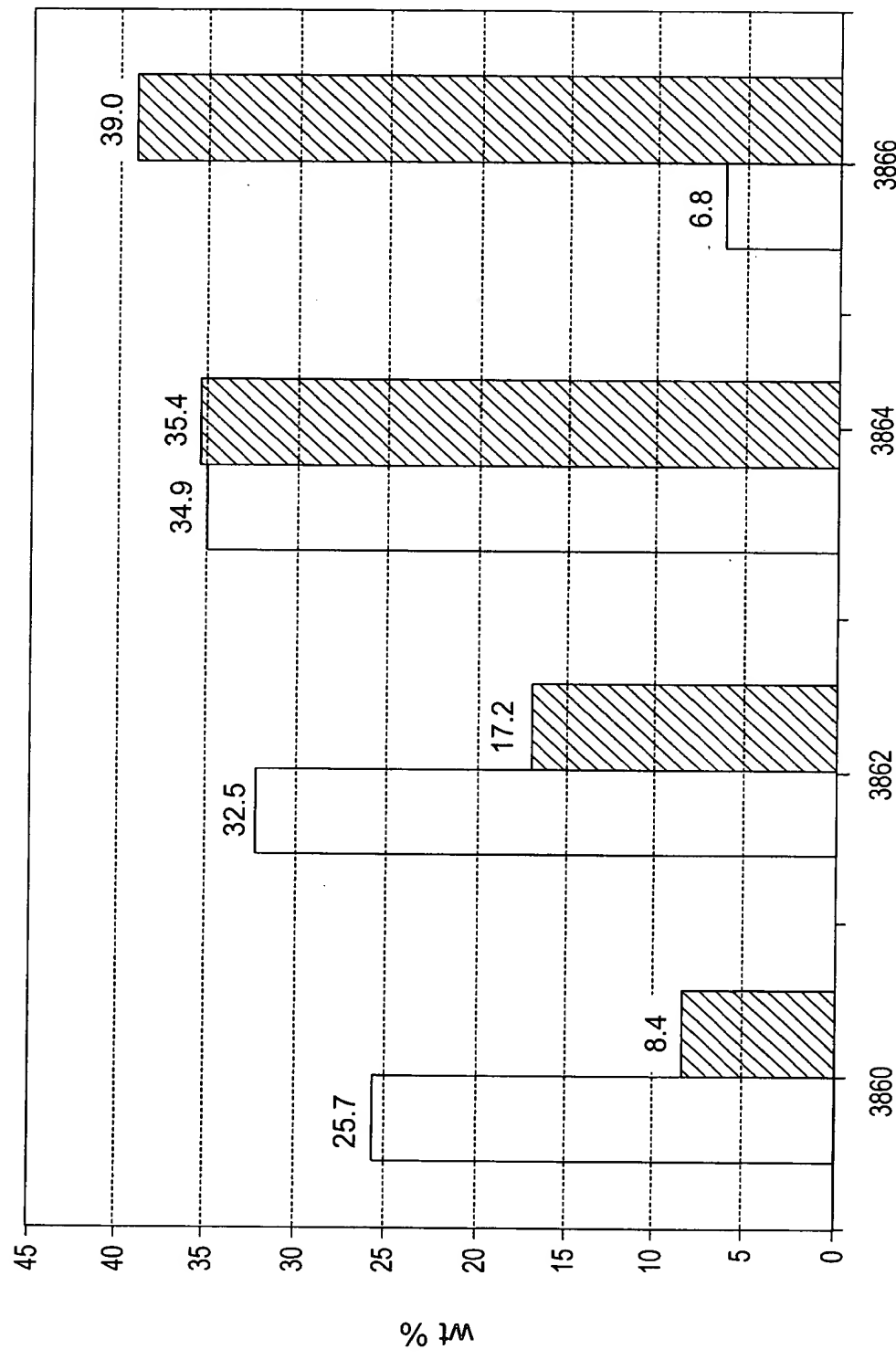


FIG. 105

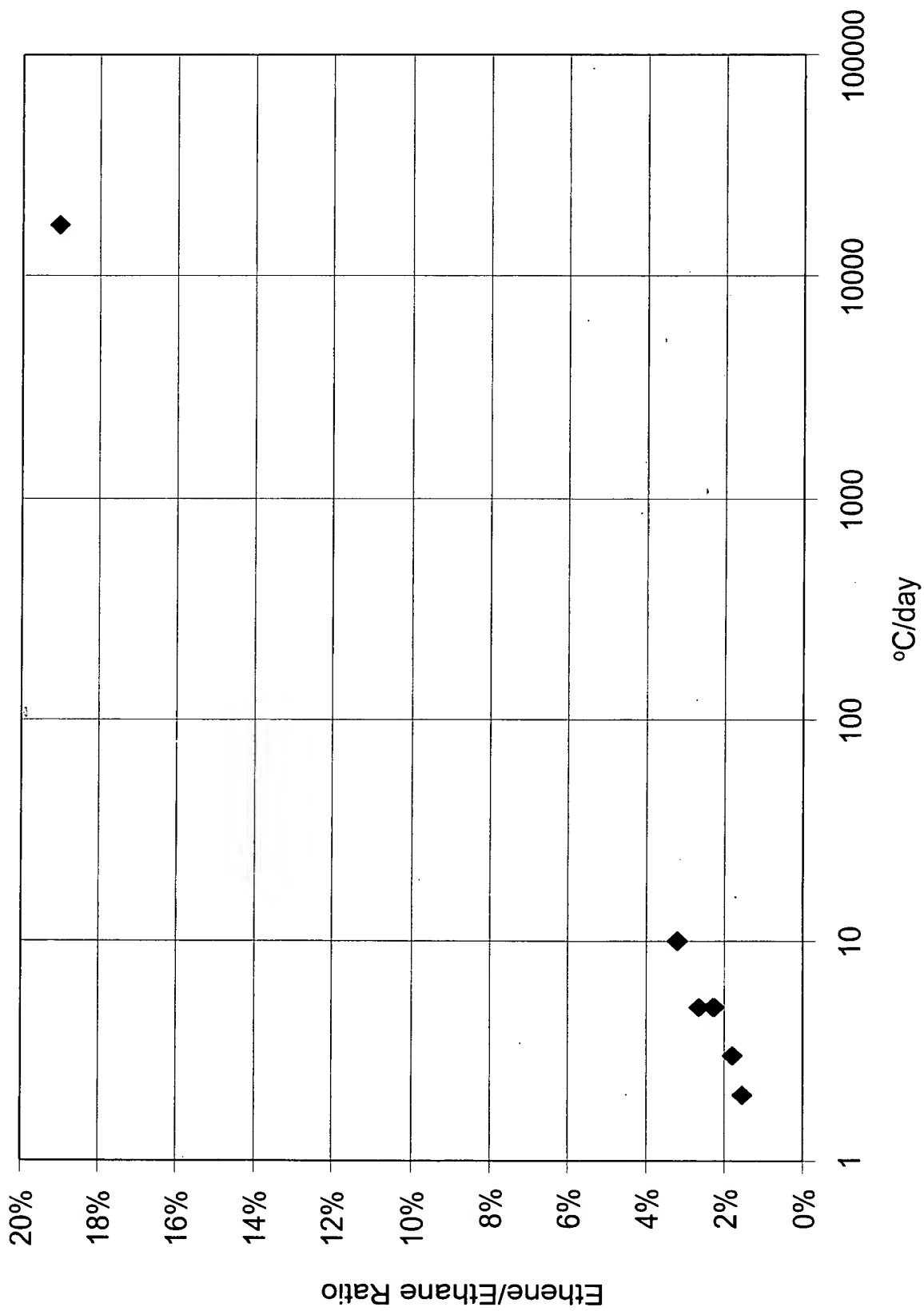


FIG. 106

9

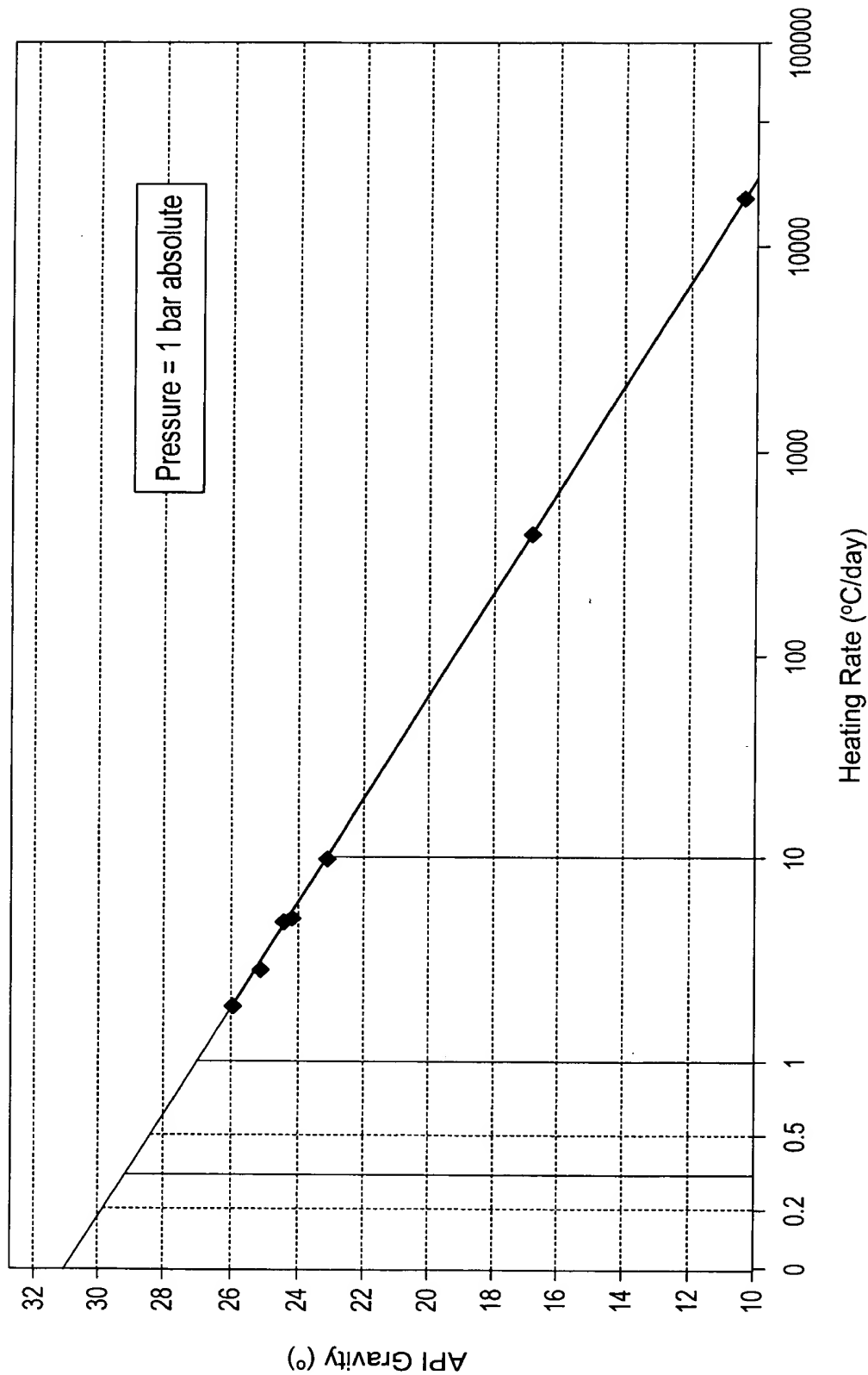


FIG. 107

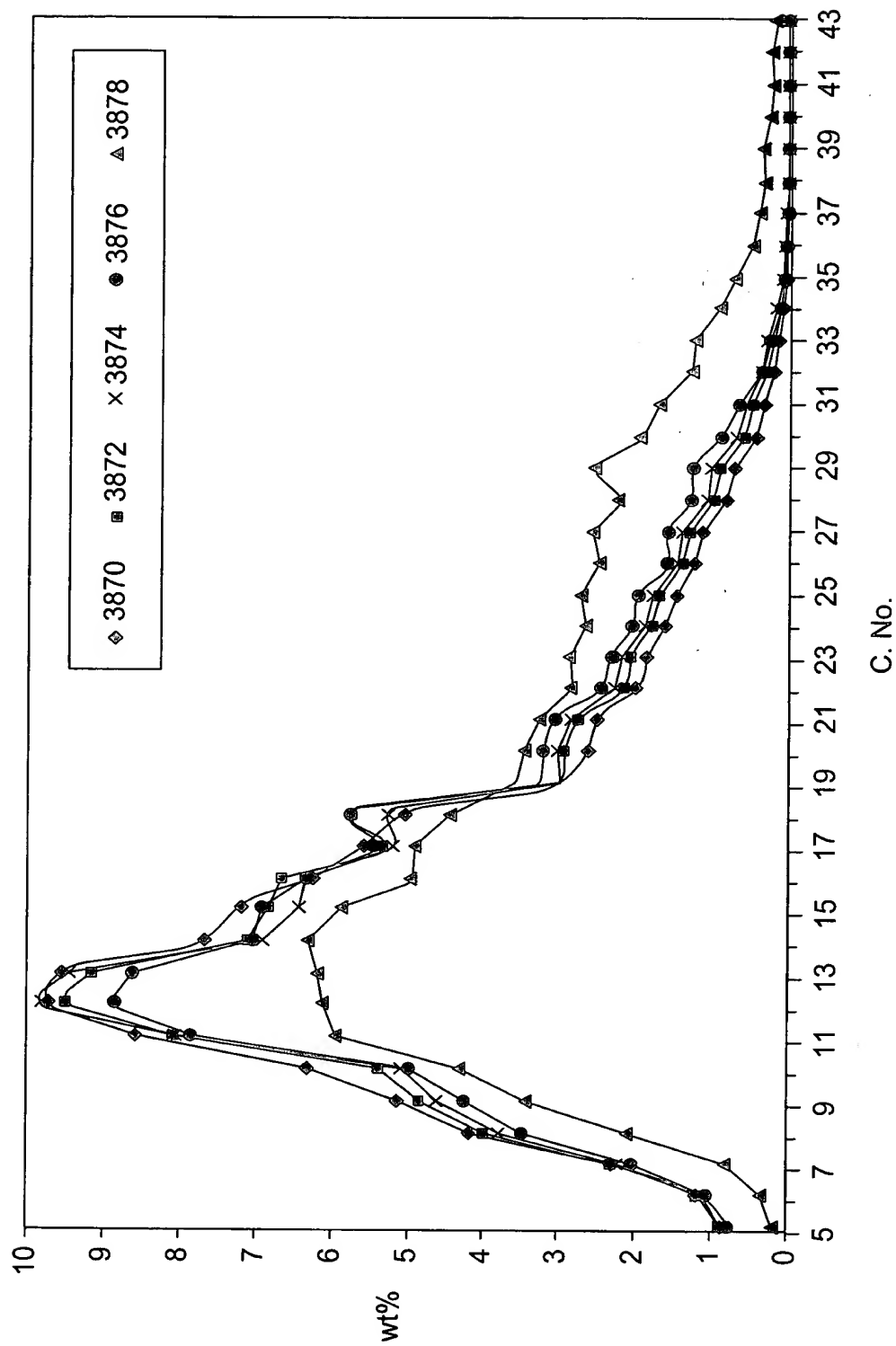


FIG. 108

t (minutes)

A line graph showing the relationship between weight (kg) and cumulative energy (kw-hr) for a 1000 lb. test specimen. The y-axis represents weight in kg, with major tick marks at 0, 2270, 4540, 6800, 9070, 11300, 13600, and 15900. The x-axis represents cumulative energy in kw-hr, with major tick marks at 0, 20000, 40000, 60000, 80000, 100000, 120000, and 140000. The graph shows a curve that starts at (0,0) and increases, with a slight change in slope around 40000 kw-hr. The curve ends at approximately 125000 kw-hr and 15000 kg.

Cumulative Energy (kw-hr)	Weight (kg)
0	0
20000	2270
40000	4540
60000	6800
80000	9070
100000	11300
120000	13600
125000	15000

Cumulative Energy
kw-hr



FIG. 111

4

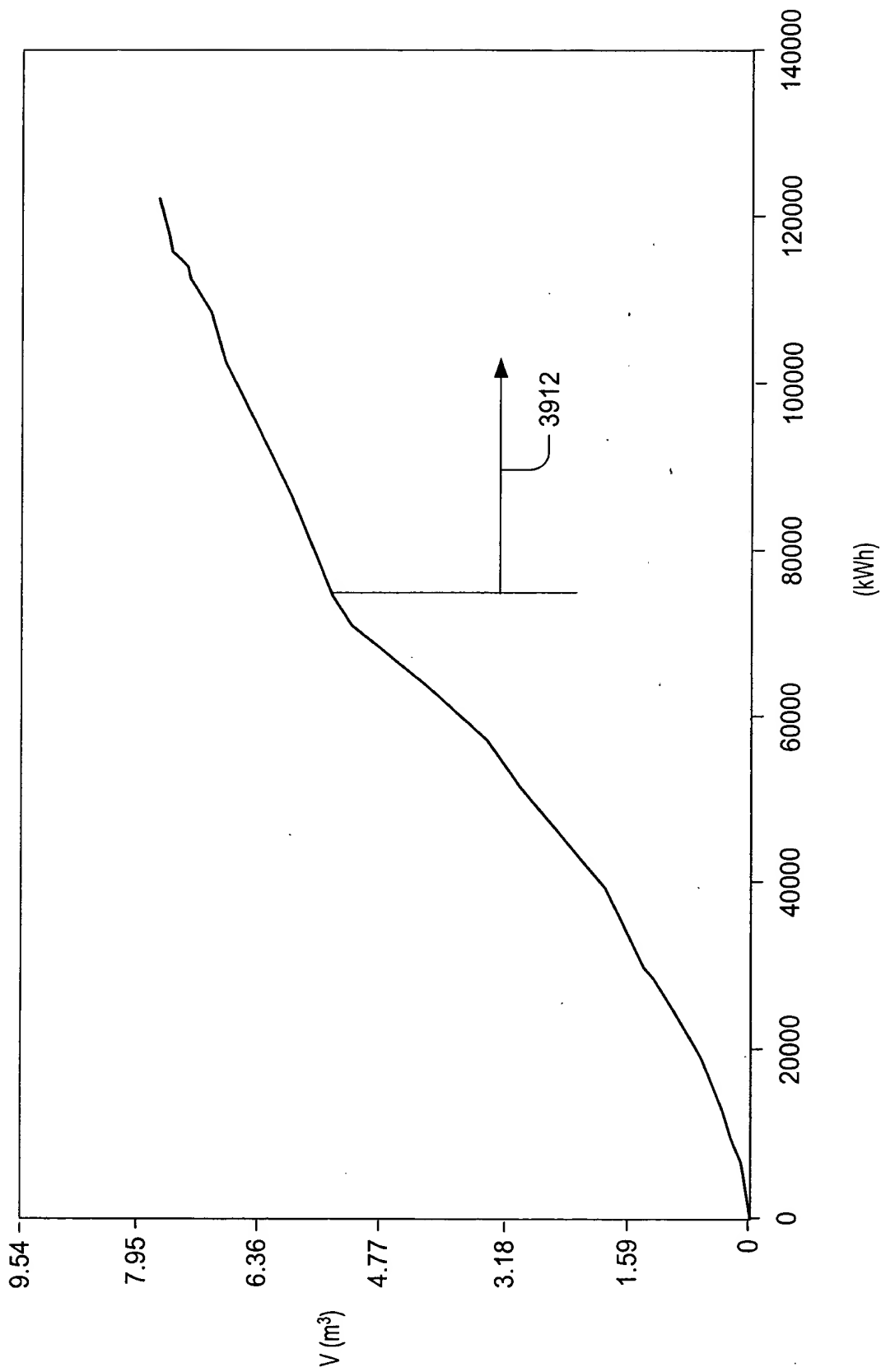


FIG. 112

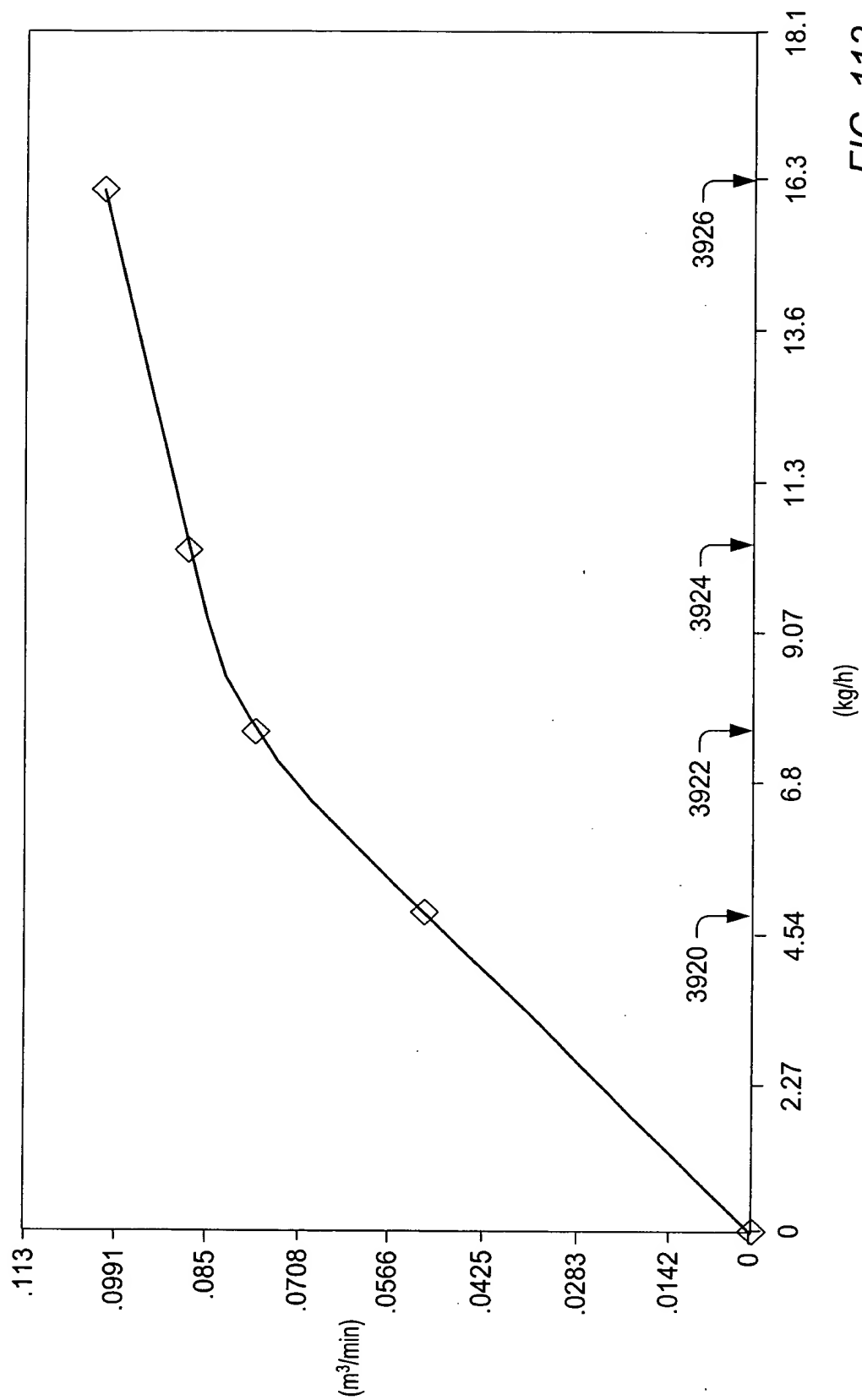


FIG. 113

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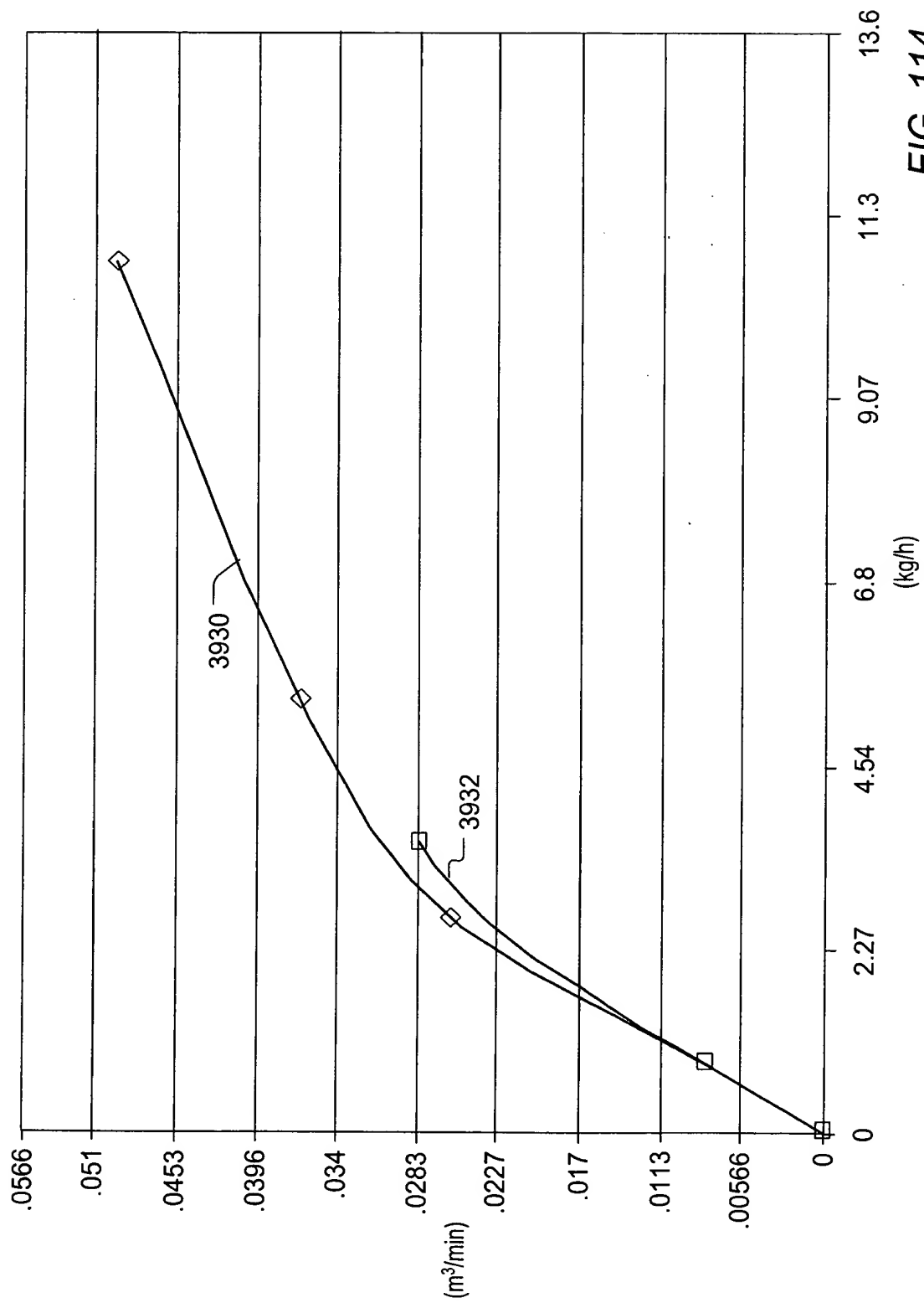
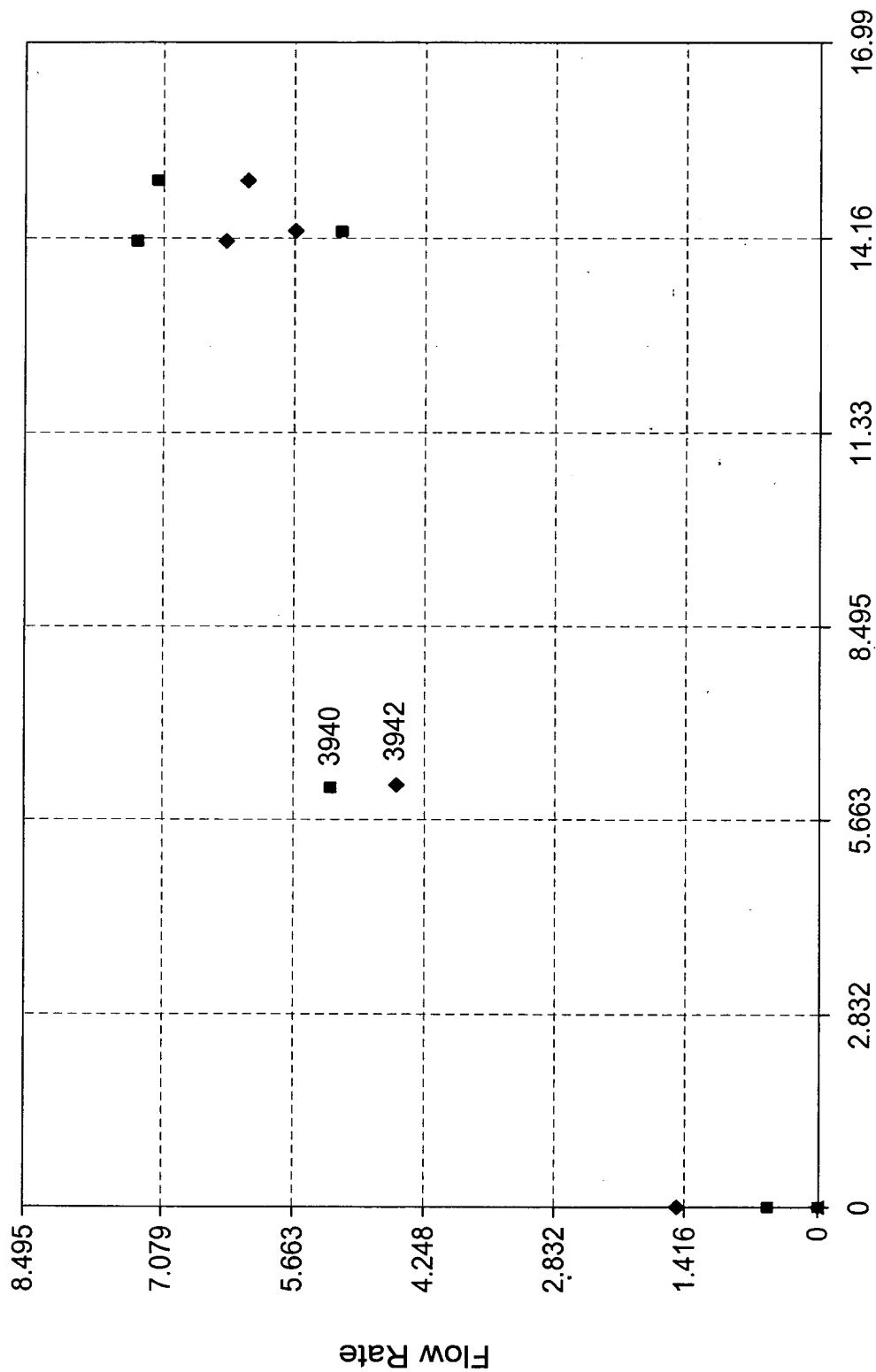


FIG. 114

Flow Rate (m³/hr)

4



Methane Injection Rate (m³/hr)

FIG. 115

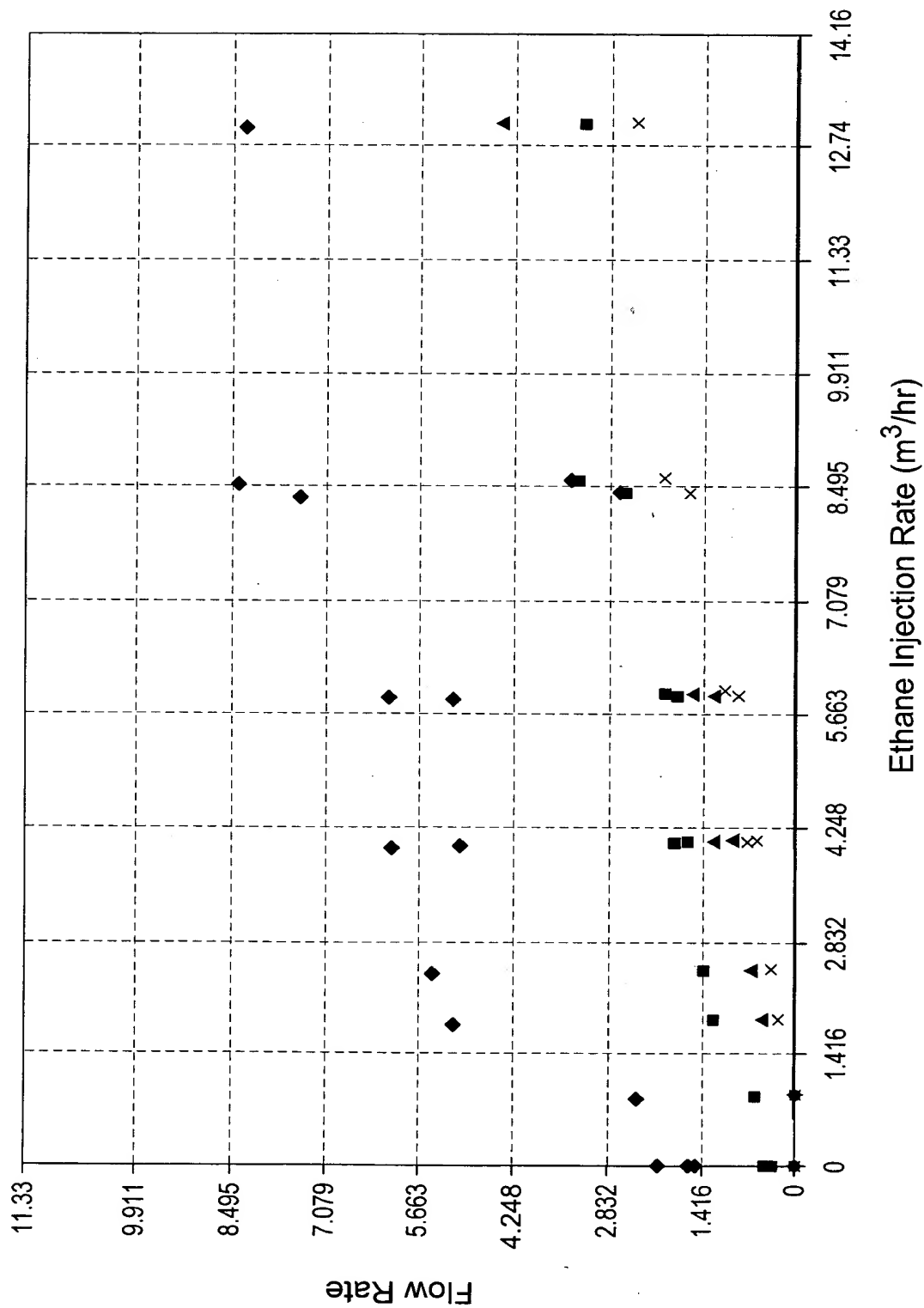


FIG. 116

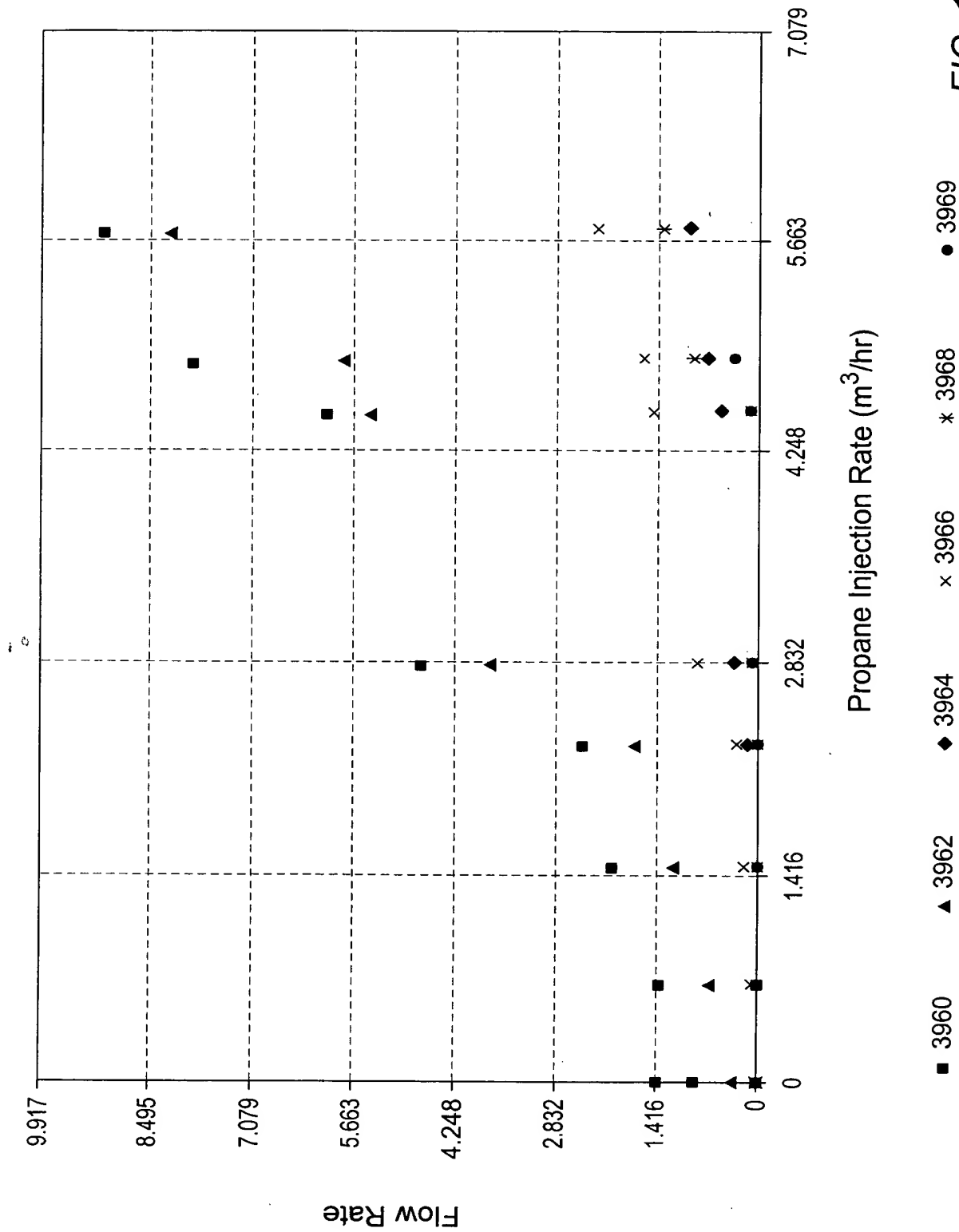


FIG. 117

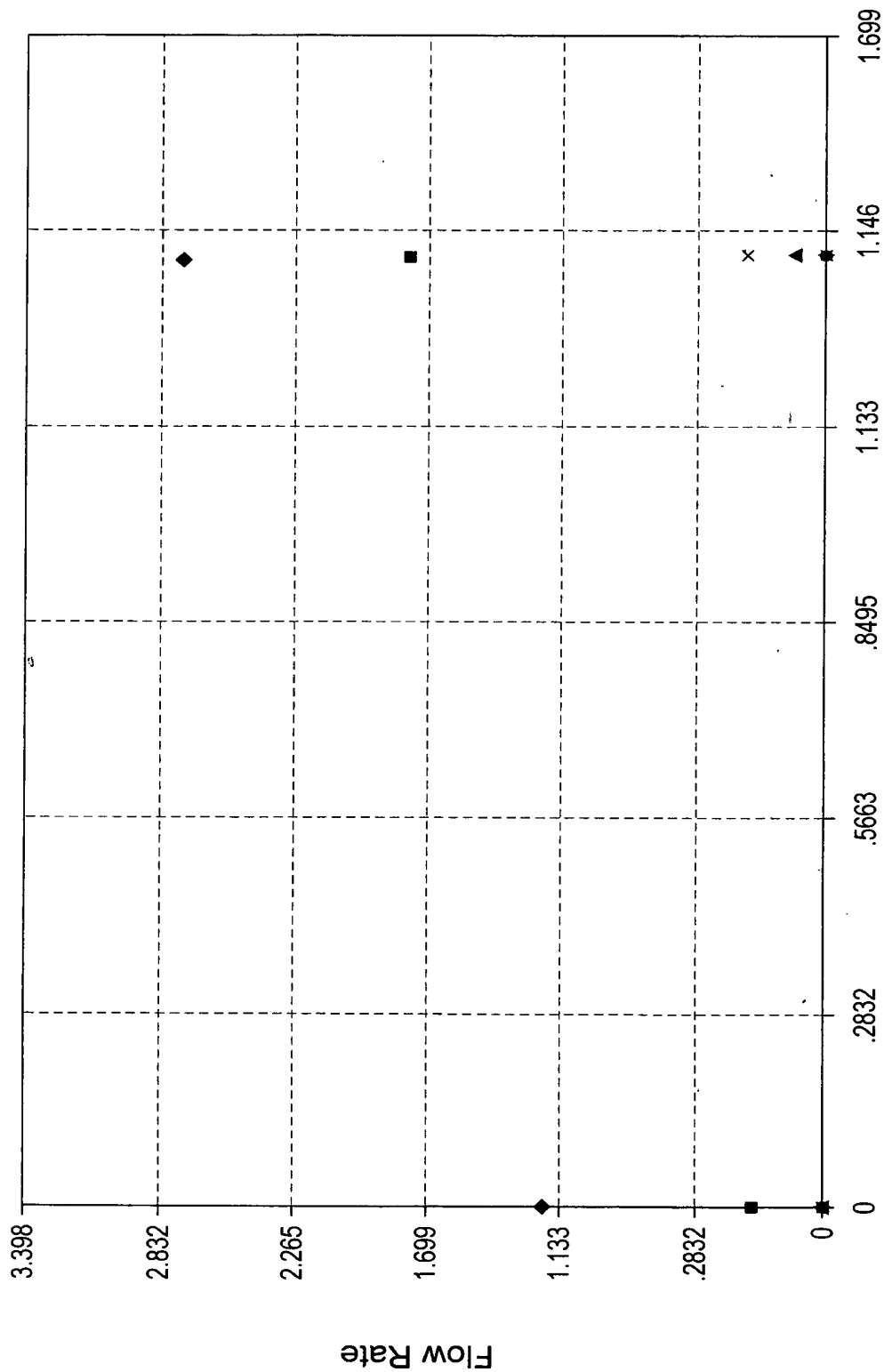


FIG. 118

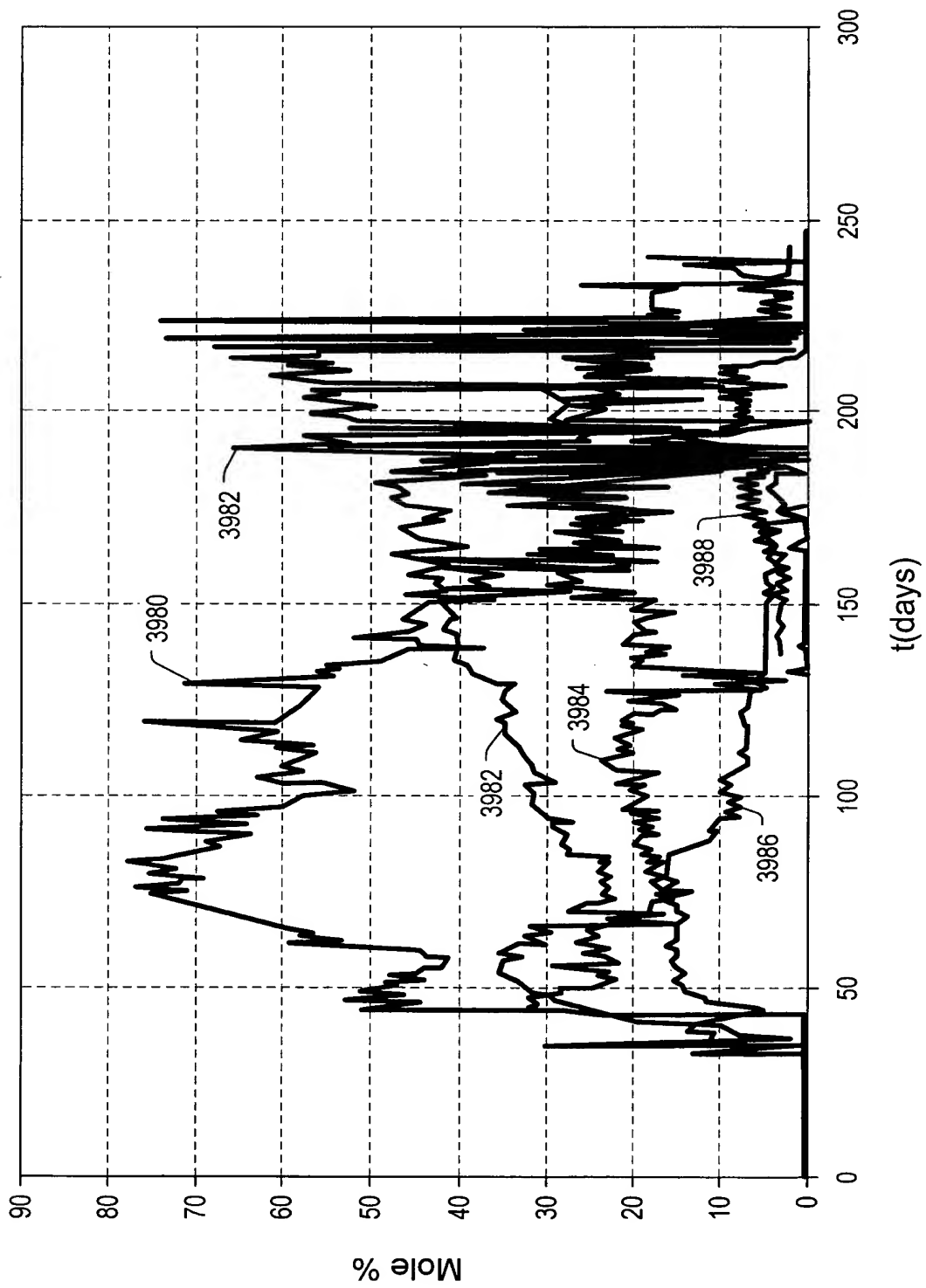


FIG. 119

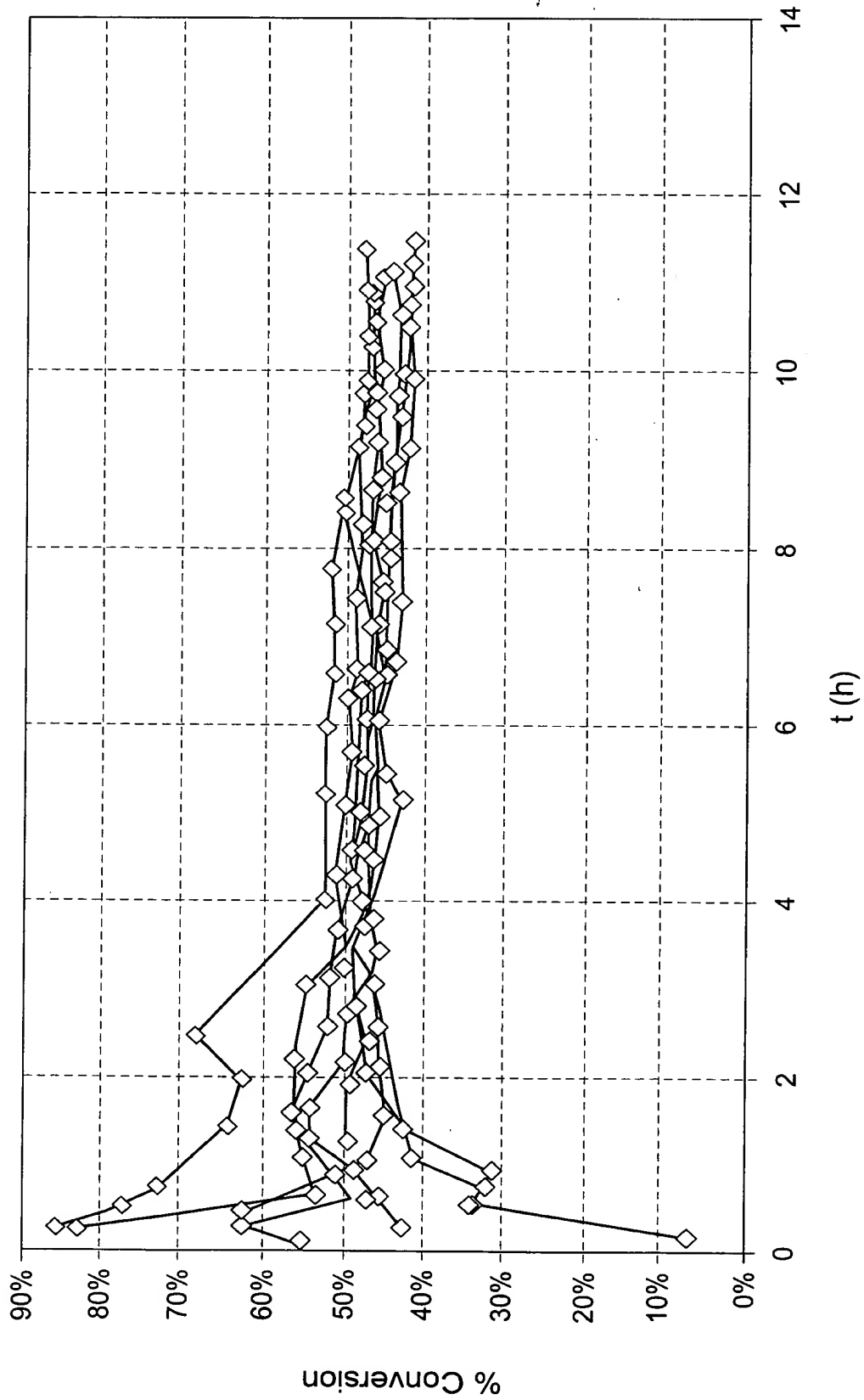


FIG. 120

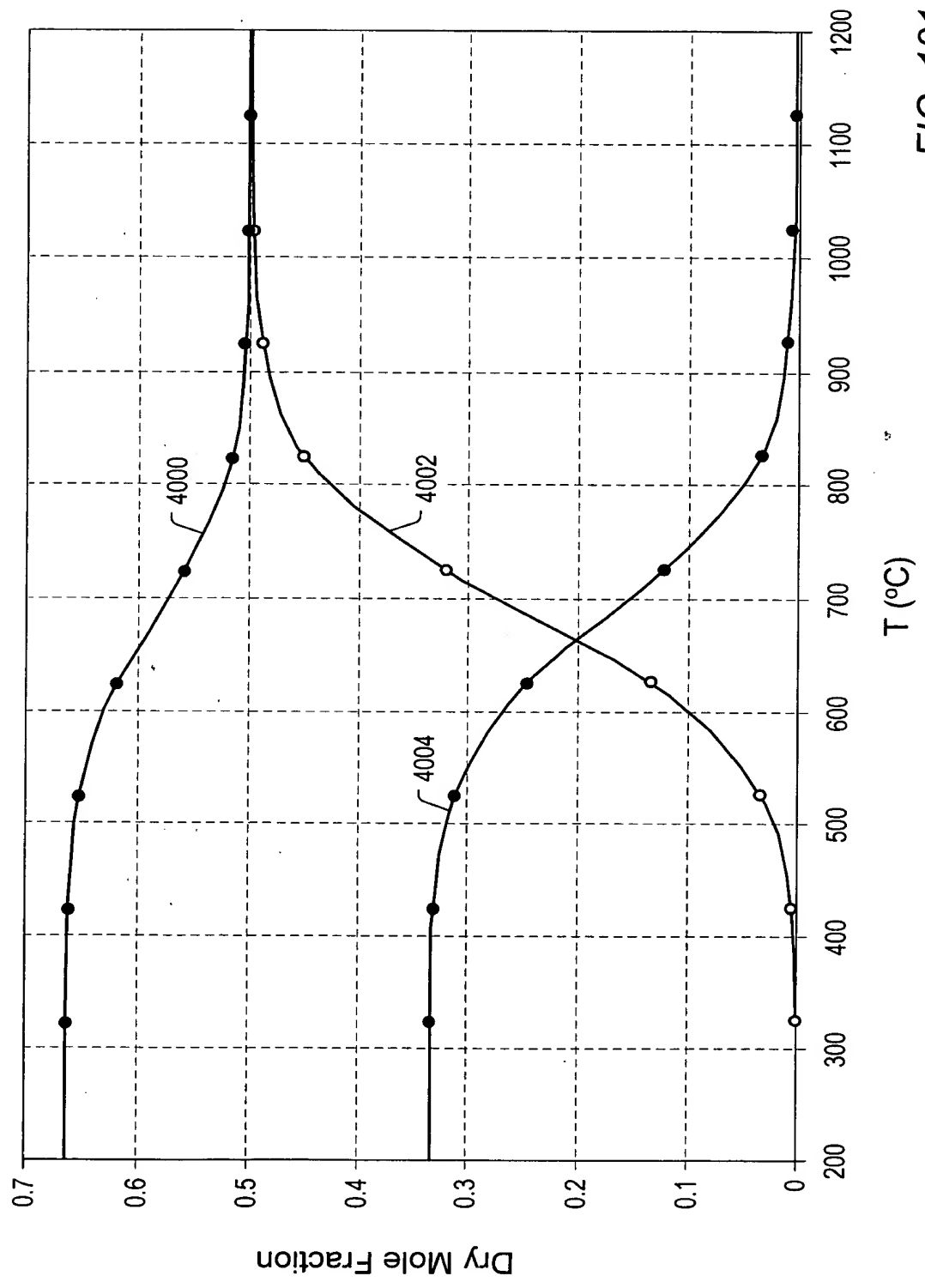


FIG. 121

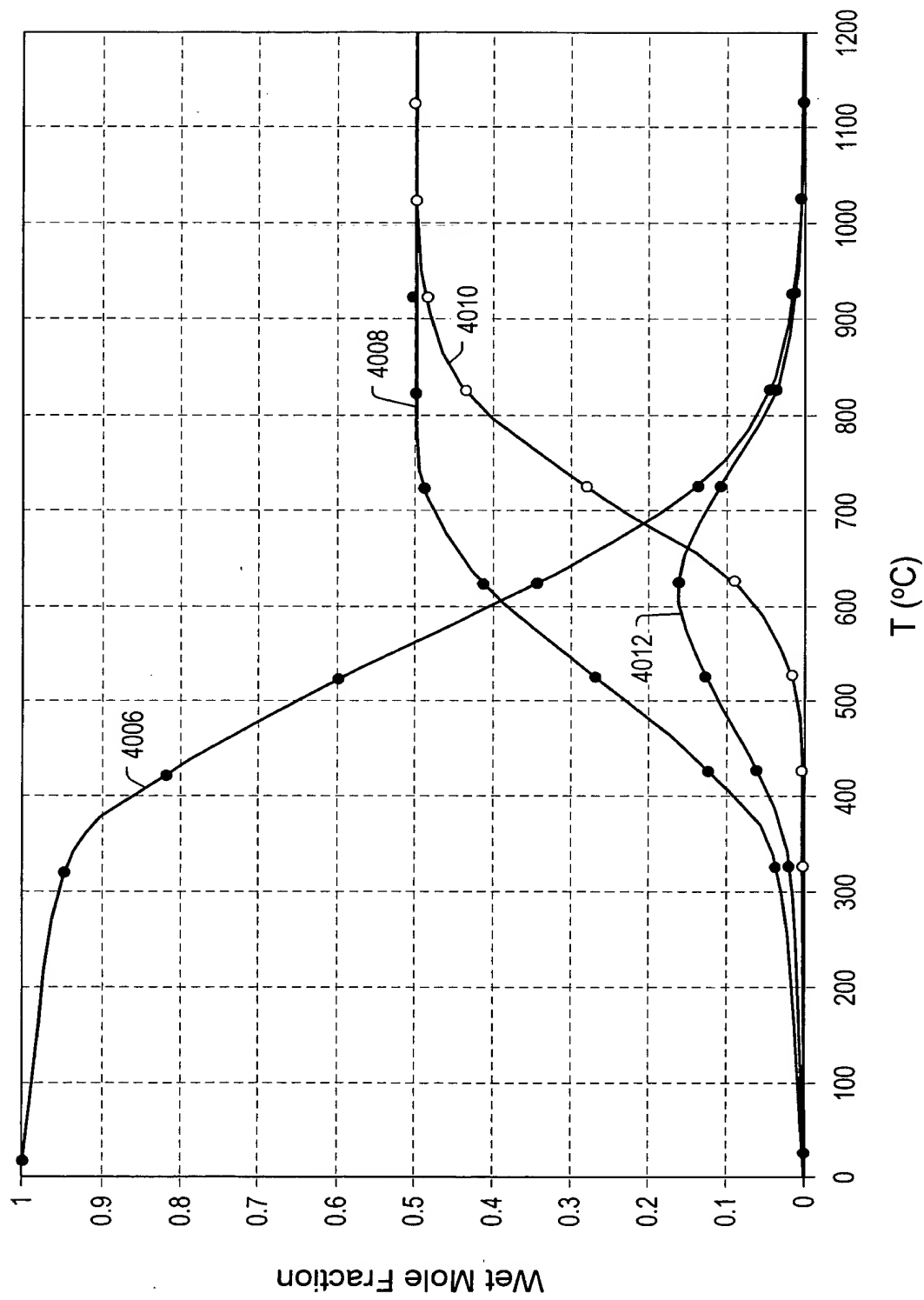
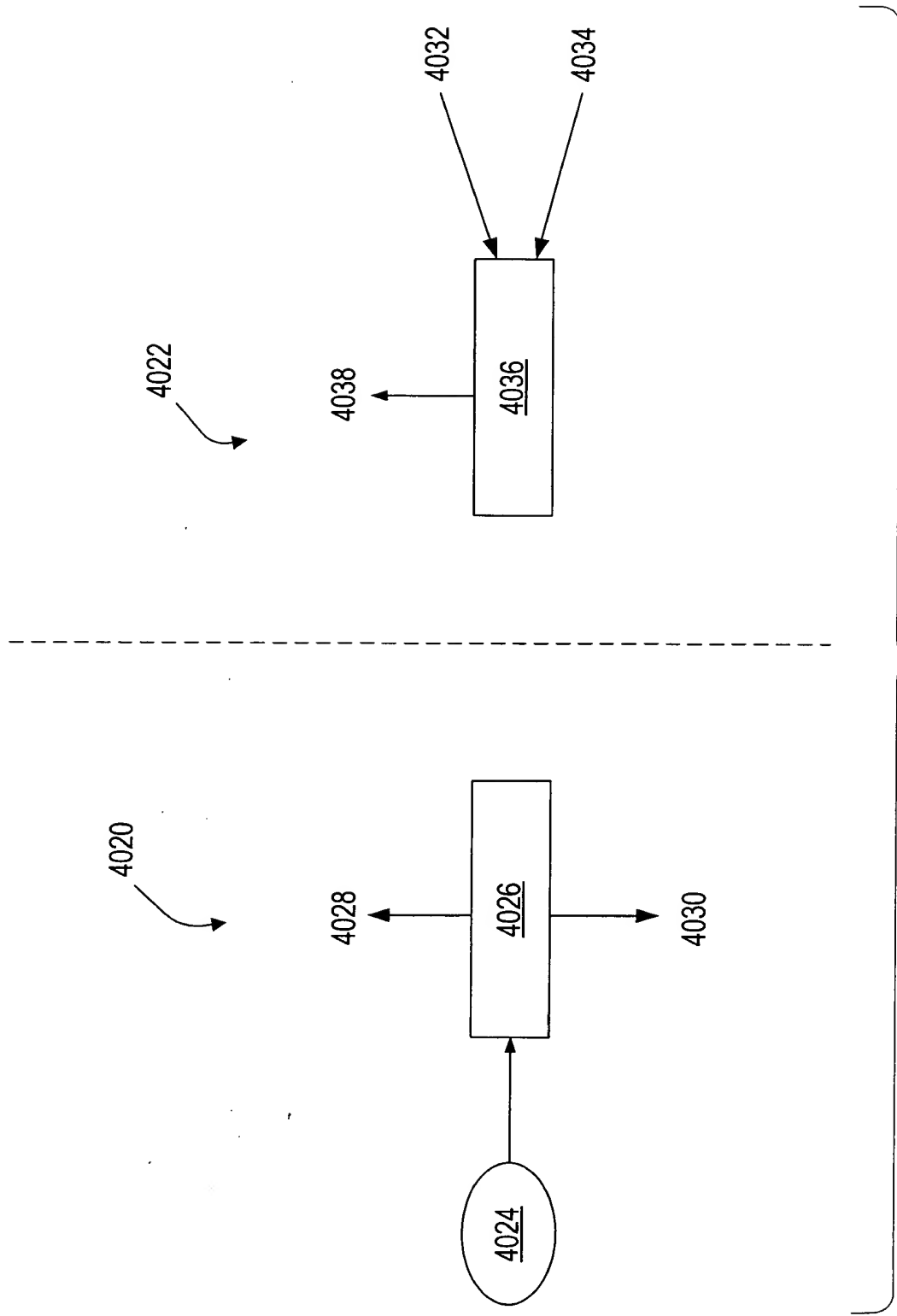


FIG. 122



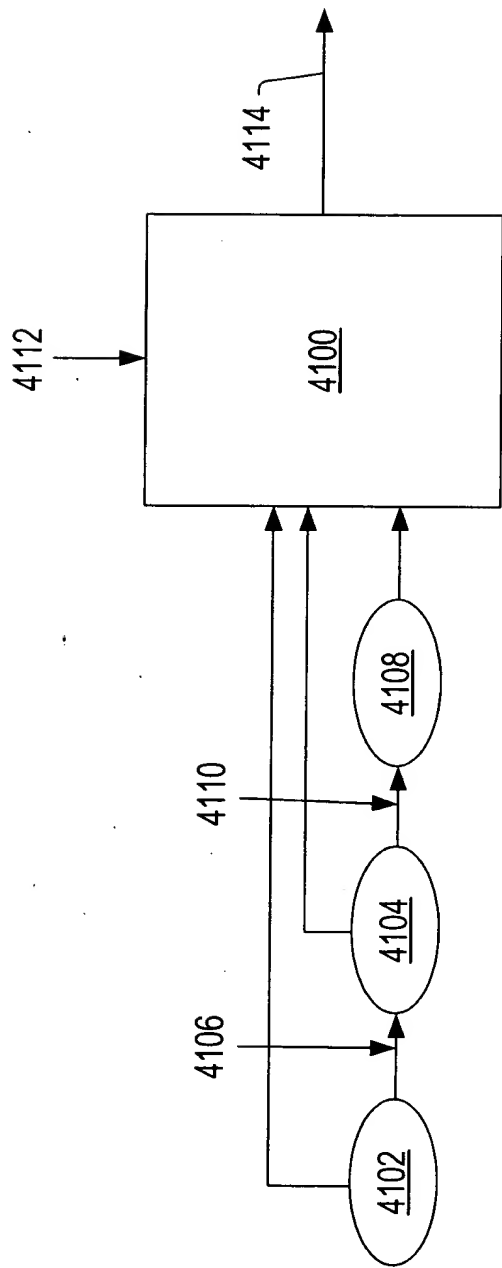


FIG. 124

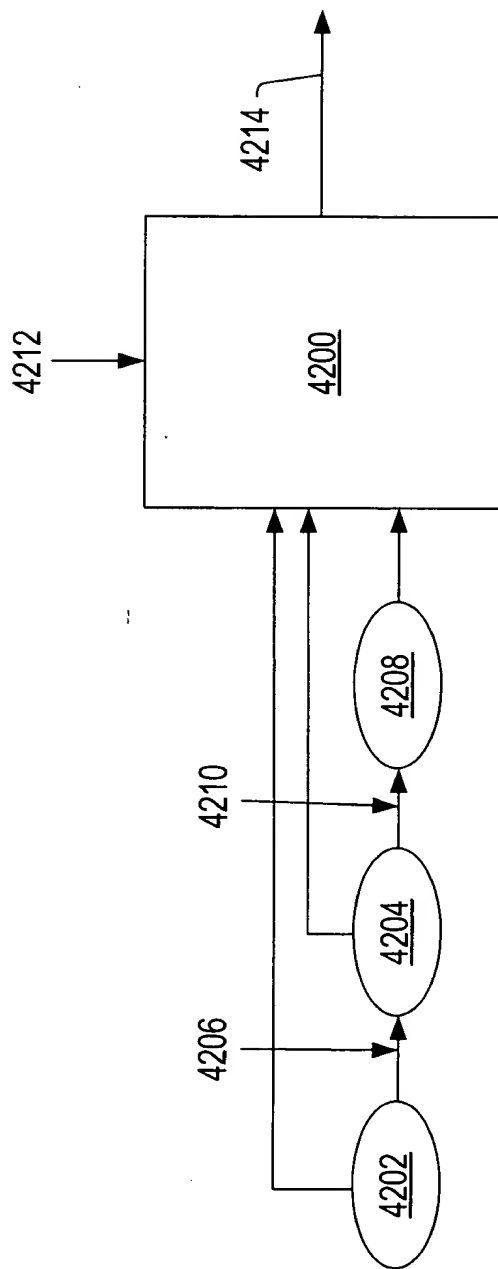


FIG. 125

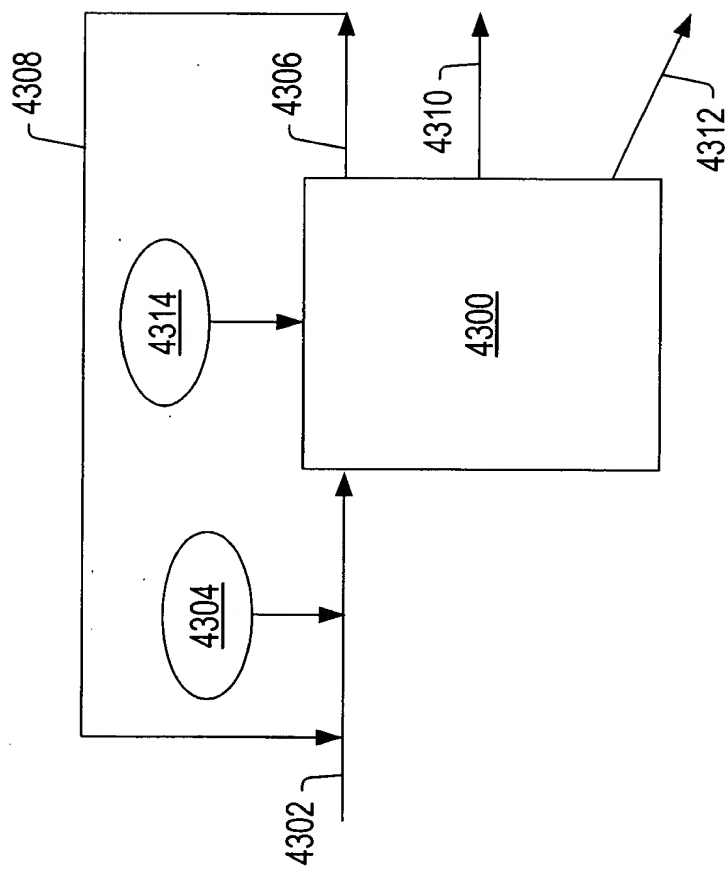


FIG. 126

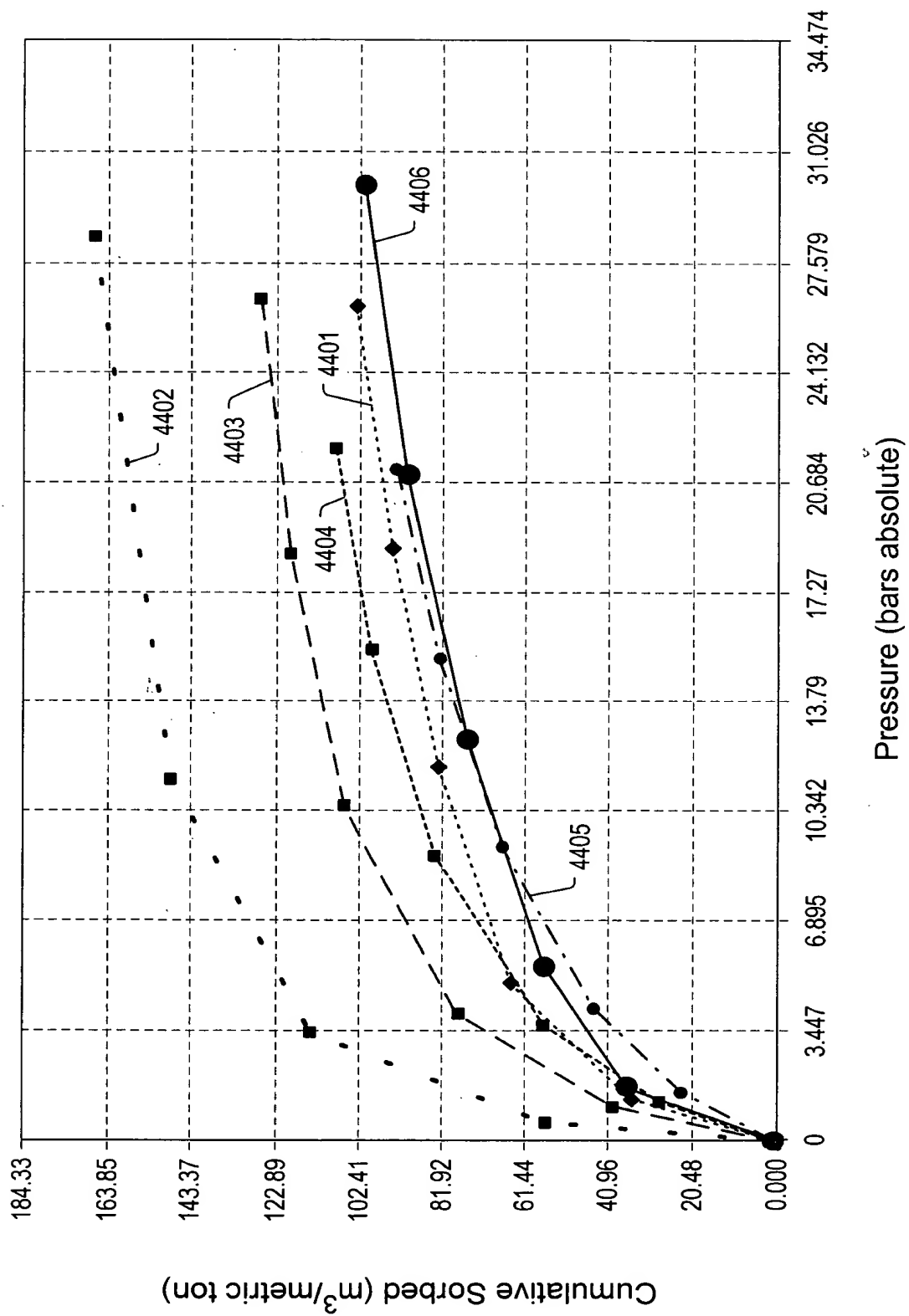


FIG. 127

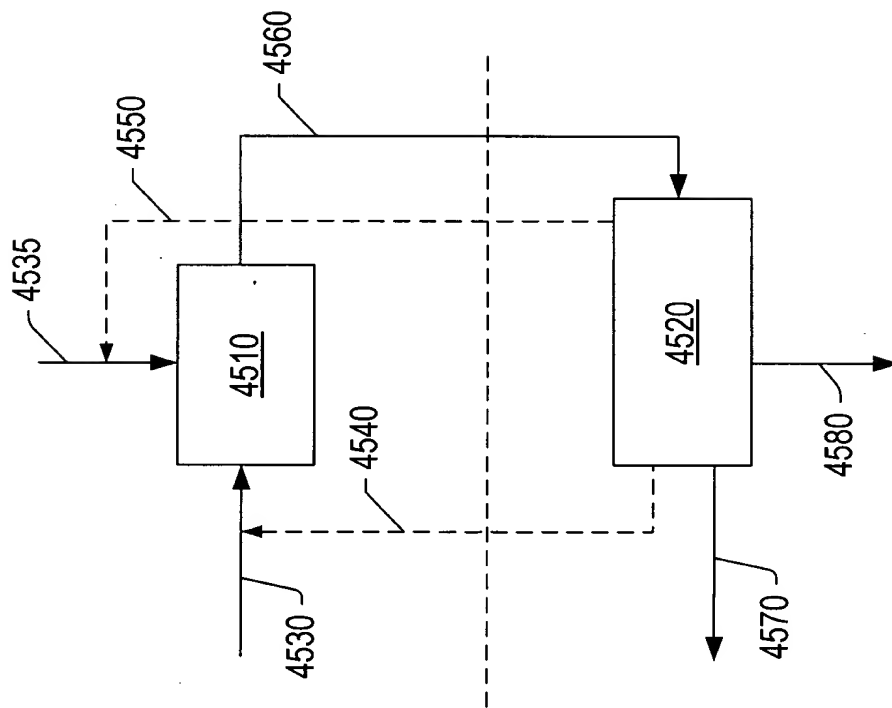


FIG. 128

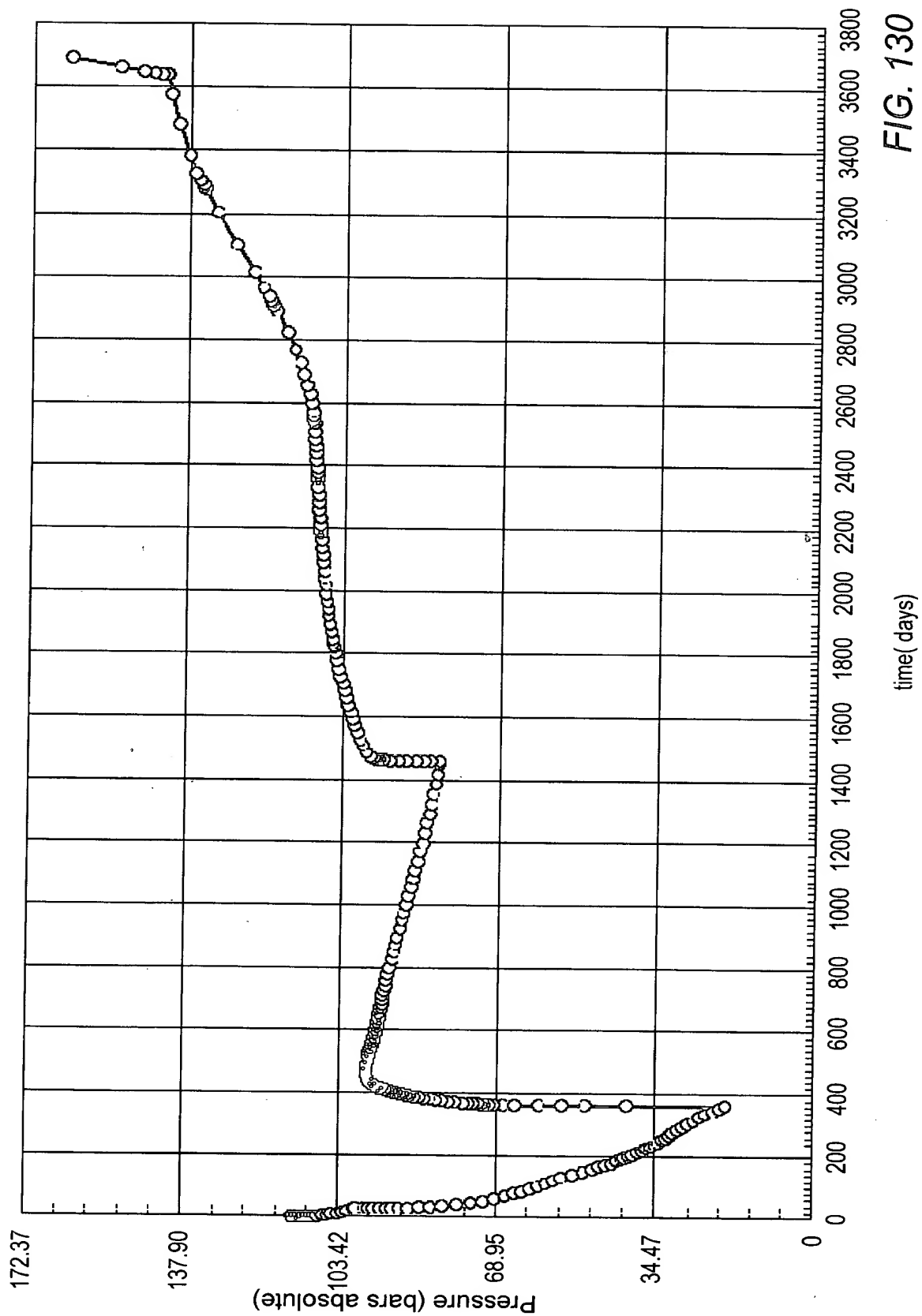


FIG. 130

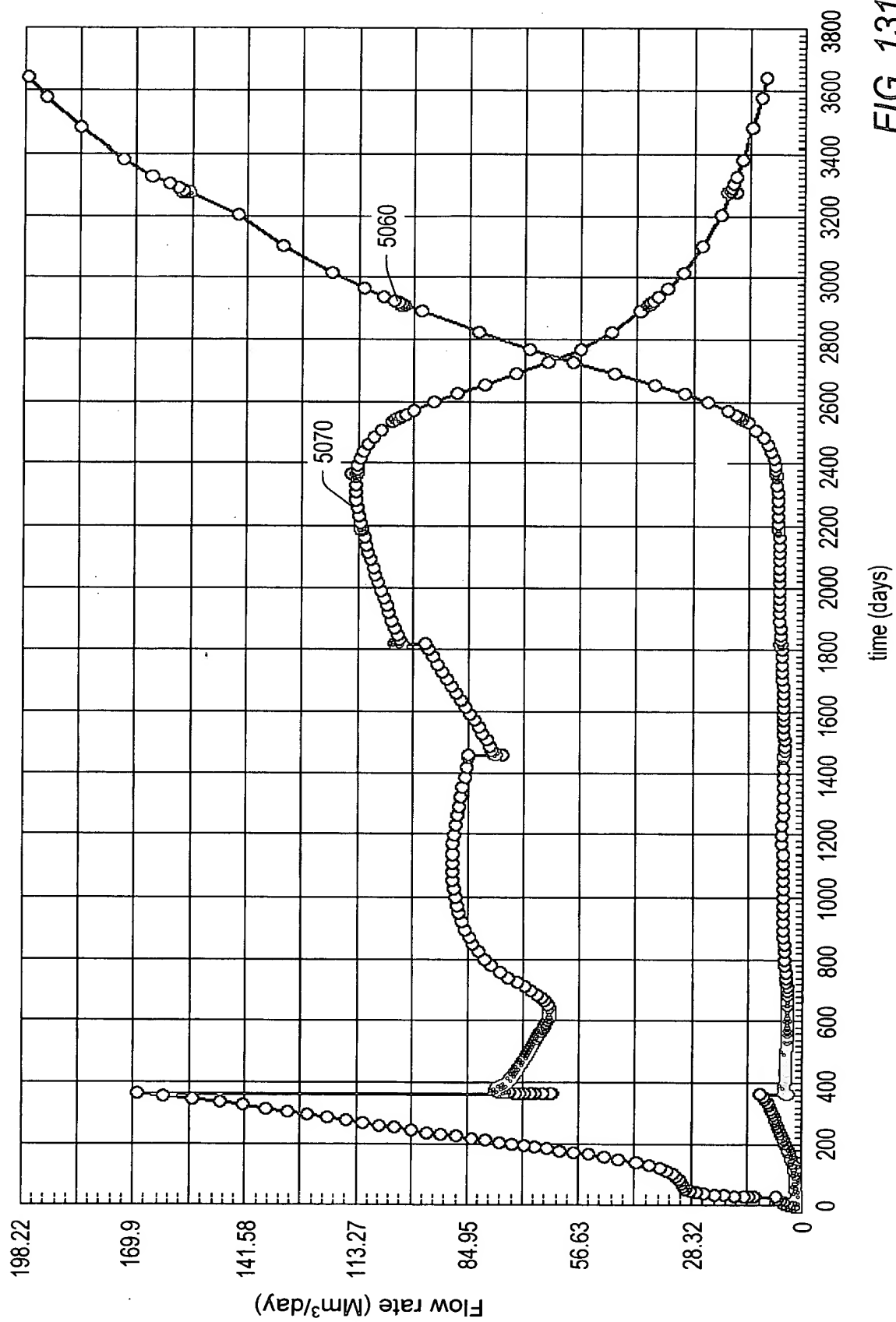


FIG. 131

5080 5090

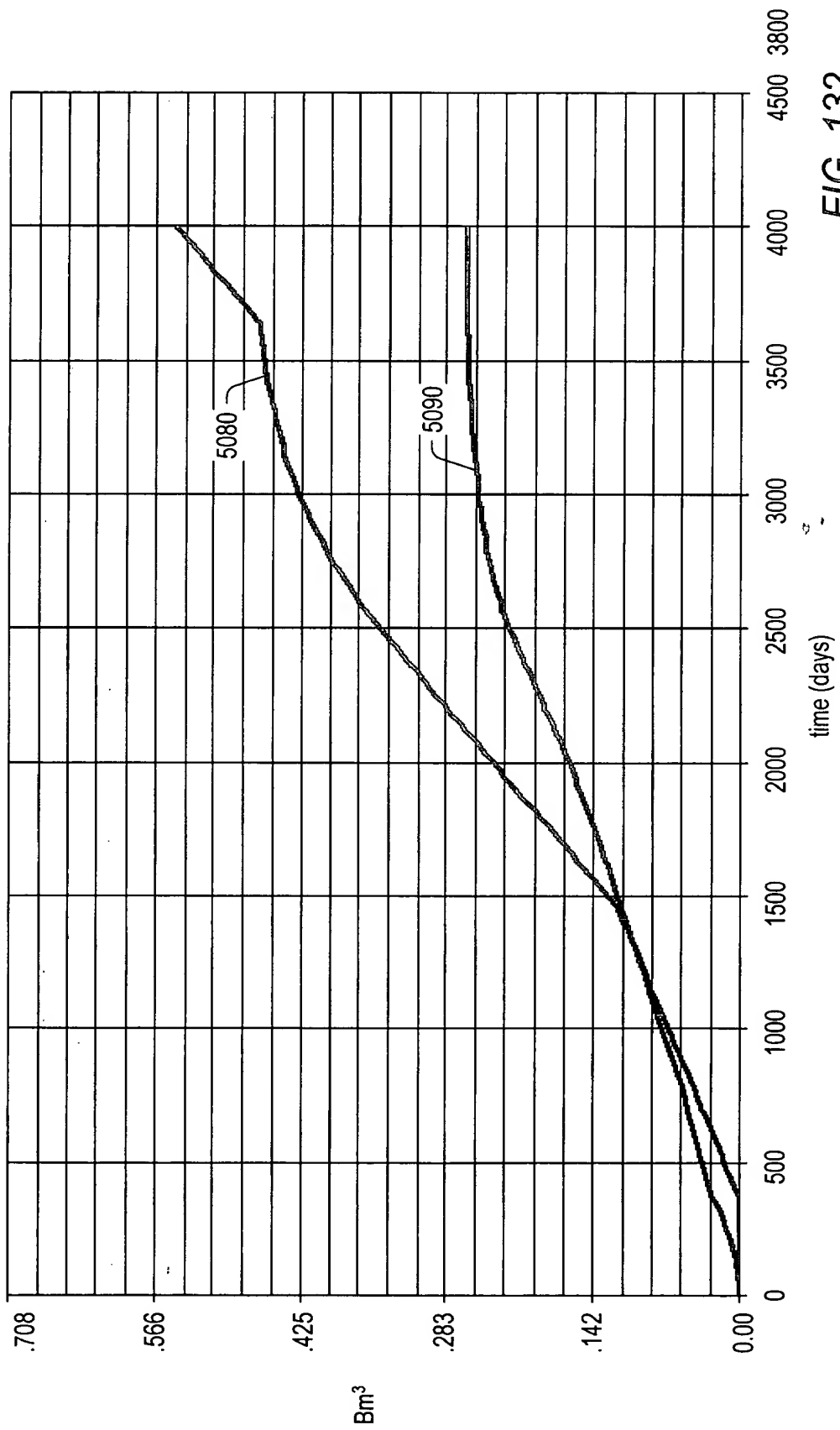


FIG. 132

Pressure (bars absolute)

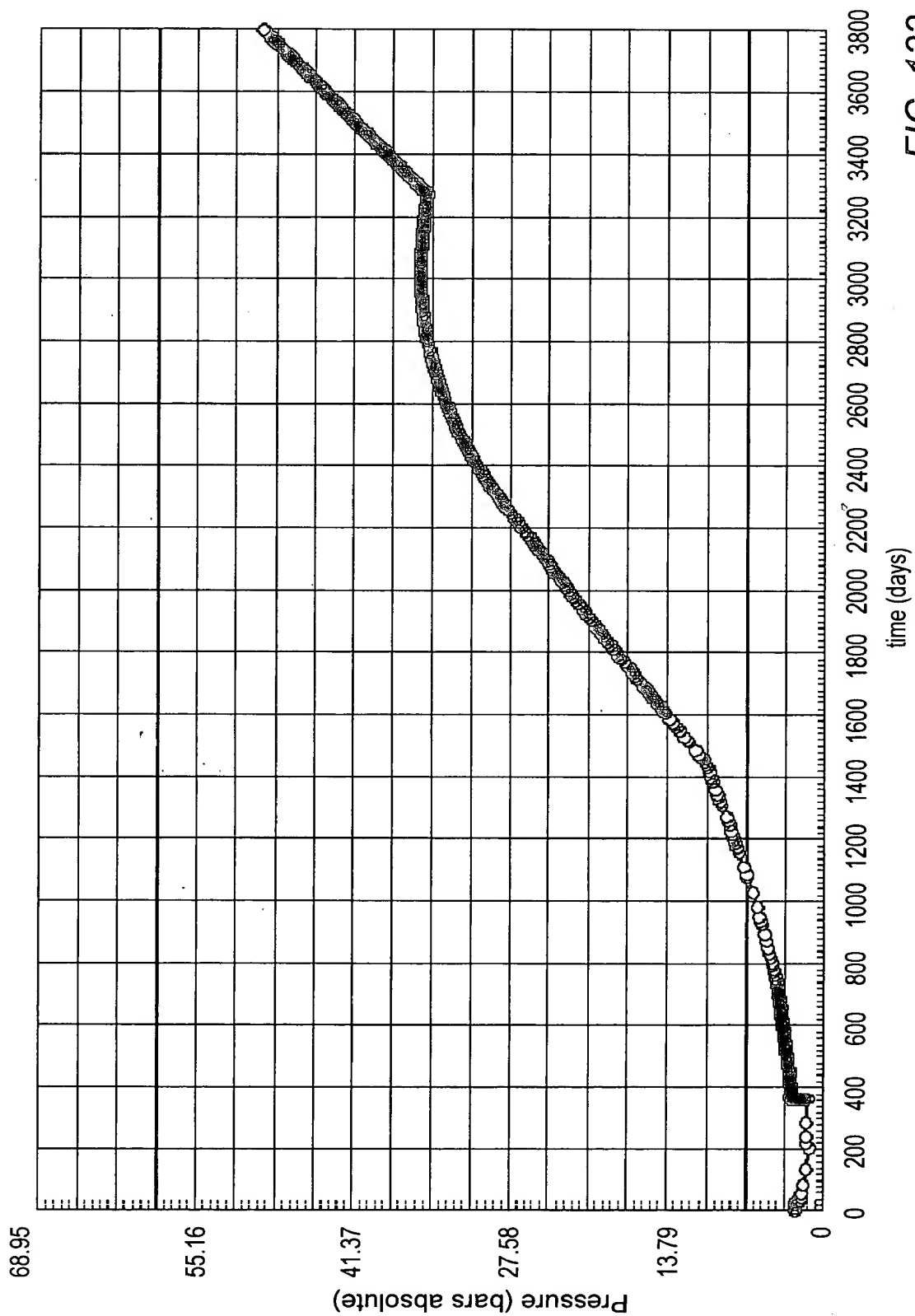


FIG. 133

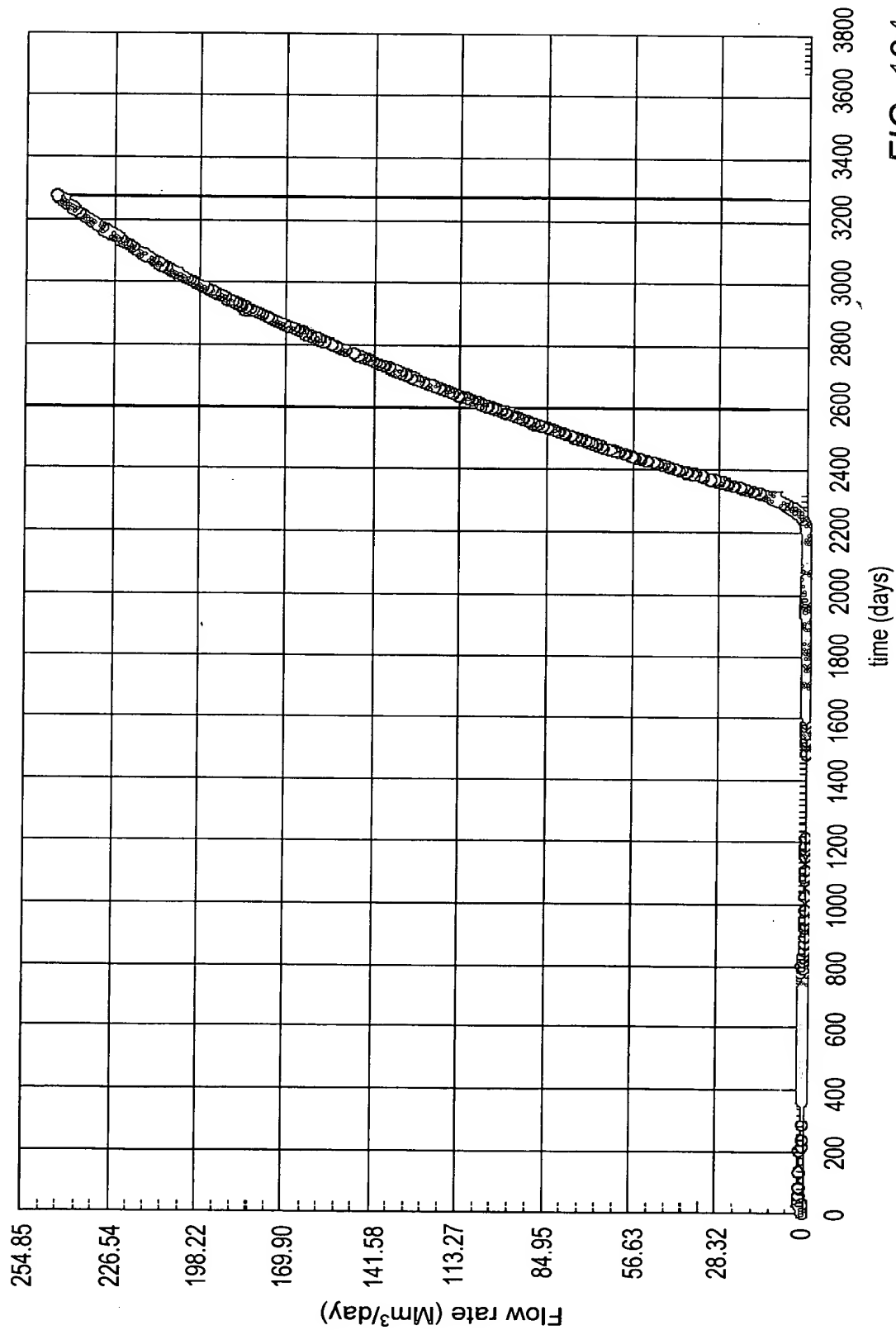


FIG. 134

